

Annual Compliance Report 2009

Kalaeloa Harbor, Hawaii



Prepared for

**Hawaii Department of Transportation
Harbors Division**

Prepared by

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January 2010

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature

Date

Authorized Representative of Harbors Division

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LIST OF ACRONYMS AND ABBREVIATIONS

ACR	Annual Compliance Report
BMP	Best Management Practice
CSRCP	Construction Site Runoff Control Program
EKNA	EKNA Services, Inc.
EMS	Environmental Management System Manual
HAR	Hawaii Administrative Rules
HDOH	Hawaii Department of Health
HDOT	Hawaii Department of Transportation
HRS	Hawaii Revised Statutes
IEP	Inspection and Enforcement Plan
IDDE	Illicit Discharge Detection and Elimination
LIDS	Low Impact Development Standards
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NGPC	Notice of General Permit Coverage
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NSWD	Non-Stormwater Discharge
ORI	Outfall Reconnaissance Inventory
SHOT	Stormwater Hotline Occurrence Tracking
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TBD	To Be Decided
TMK	Tax Map Key
TRP	Tenant Revocable Permit
TSI	Tenant Self-Inspection
USEPA	U.S. Environmental Protection Agency
WESTON	Weston Solutions, Inc.

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1.0 INTRODUCTION



The Hawaii Department of Transportation (HDOT), Harbors Division has developed this Annual Compliance Report (ACR) for the Hawaii Department of Health (HDOH) to detail the activities conducted by Harbors Division to comply with the requirements of its Notice of General Permit Coverage (NGPC) (File Number HI03KB488) and to keep a record of progress toward yearly goals.

The ACR will reflect the same organization as the Storm Water Management Plan (SWMP) that was developed for HDOH in order to facilitate comparison between planned activities and activities that were accomplished. The ACR describes efforts made by Harbors Division to be in compliance with the six minimum control measures established by the United States Environmental Protection Agency (USEPA) and as required by the Hawaii Administrative Rules (HAR) 11-55 Appendix K and the NGPC. This report identifies activities completed in calendar year 2009 and presents areas that will be addressed in calendar year 2010. The following is presented in this ACR:

- ✓ Status of Compliance;
- ✓ Assessment of the SWMP minimum control measures:
- ✓ Public outreach and education,
- ✓ Public involvement/participation,
- ✓ Illicit discharge detection and elimination,
- ✓ Construction site runoff control,
- ✓ Post-construction stormwater management in new development and redevelopment;
- ✓ Pollution prevention/good housekeeping;
- ✓ Modifications to the SWMP;
- ✓ Summary of Planned Activities;
- ✓ Modifications to the Small Municipal Separate Storm Sewer System (MS4); and
- ✓ Summary of Future and Expended Budget Requirements



1.1 APPLICABLE REGULATIONS

It is the intention of HDOT Harbors that this ACR demonstrates compliance with the following regulations listed in the NGPC:

- ✓ HAR, Chapter 11-55, Appendix K, NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems;
- ✓ HAR, Chapter 11-55, Appendix A, DOH, Standard General Permit Conditions; and

- ✓ HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12, and any other applicable Sections of HAR, Chapter 11-55.

1.2 STATUS OF COMPLIANCE

HAR Chapter 11-55 Appendix K authorizes discharges of storm water and certain non-stormwater discharges from small MS4s. Prior NGPC for the storm drain system was granted by HDOH. In a letter dated October 19, 2007 HDOH provided for an extension of the NGPC until a notice of renewed coverage under the applicable general permit is issued or until HDOH notification is received. This extension is in accordance with HAR, Chapter 11-55-34.09(d). This document can be found in Appendix A of this document.

1.3 SWMP PERFORMANCE EVALUATION

A process for conducting an annual performance and effectiveness evaluation of the SWMP dated December 2009 has been developed and included in this ACR. This evaluation addresses specific direct and indirect measurements in order to track the long-term progress of the SWMP towards achieving improvements in water quality.

The 2009 SWMP contains Best Management Practices (BMP) tables that outline each activity. Each task is assigned a specific evaluation indicator, milestone, time frame/due date, and responsible party. The ACR is structured such that each section and BMP table corresponds with those in the SWMP. This allows the ACR to be used as an evaluation tool, addressing conformance with established performance standards, quantitative monitoring, estimates of pollutant load reductions or increases, and detailed accounting of SWMP accomplishments.

As trends are detected and the usefulness of specific BMPs or their evaluation indicators become apparent, the SWMP will be modified to appropriately address storm water issues present at the Harbor.

The 2009 SWMP establishes a baseline from which evaluations in future ACRs can be made. Harbors has committed resources to executing programs described in the 2009 SWMP, however at this time not all of the programs have been implemented due to time and budget constraints. Therefore, the 2010 ACR will provide a more comprehensive performance evaluation of the SWMP and its implementation.

2.0 PUBLIC EDUCATION AND OUTREACH



2.1 PERMIT REQUIREMENTS

City and County of Honolulu Stormwater Stenciling, 2009

HAR, Chapter 11-55, Appendix K, Part 6(a)(1). Develop and implement a public education program to distribute educational materials to users of the small municipal separate storm sewer community or conduct equivalent outreach activities emphasizing each of the following:

- (B) Hazards associated with illicit discharges, and*
- (A) Impacts of stormwater discharges on water bodies,*
- (C) Measures the users of the permittee's small municipal separate storm sewer system can take to reduce pollutants in stormwater runoff, including, but not limited to, minimizing fertilizer application and practicing proper storage and disposal of chemicals and wastes.*

2.2 TENANT EDUCATION AND OUTREACH

Harbors Division continues to require tenants to reduce to the maximum extent practicable (MEP) pollution in stormwater discharges and effectively prohibit unauthorized non-stormwater discharges into the MS4 system through its tenant lease agreements and Tenant Revocable Permit (TRP), which are attached as Appendix B.

A combined inventory of tenants at Honolulu and Kalaeloa Harbors is kept on file at Harbors Environmental Section and has been updated this year to include all current tenants and identifies primary and alternate contacts for each tenant. Please see BMP 2-1. This combined inventory can be found in Appendix C. No updates to the inventory for Kalaeloa Harbor tenants were necessary this year.

Harbors Division sent out an annual mailing to Small MS4 users in order to educate them on stormwater quality issues. The mailings on October 5, 2009 included a Tenant Self-Inspection (TSI) form, which served as a tool for Harbors to use to update its inventory of materials and processes occurring on site that may potentially affect stormwater. Please see BMP 2-1. The TSI form is included as Appendix D and the updated TSI database of both Honolulu and Kalaheo Harbors is found in Appendix E.

The mailing also included educational materials describing the responsibilities of harbor tenants and visitors toward maintaining water quality, and resources for obtaining additional information regarding stormwater pollution. As feedback is received from tenants and specific areas requiring further education are identified, the mailings will be updated. Please see BMP 2-1. The 2009 mailing included the following, which were provided in the Draft SWMP dated December 2009 and are included as Appendix F:

- ✓ The “Dump No Waste, Protect Our Ocean and Waterways” Flier. The flier distributes general information on stormwater pollution prevention and the governing regulations. It also suggests five work related BMPs targeting typical tenant activities. This flier includes the USEPA Stormwater BMP website link: <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>, contact information for the Harbors Environmental Section for stormwater concern reporting and a web link to the Harbors National Pollutant Discharge Elimination System (NPDES) General Permit.
- ✓ The “Keep The Storm Drains Clean” Flier. This flier lists “The 3 Cs” of storm drain pollution prevention: Contain, Control and Capture. It also provides the Harbors Environmental Section contact information for stormwater concerns.

On October 22, 2009 Harbors Division held a tenant educational workshop entitled, “Tenant Storm Water Pollution Prevention Awareness Training.” The agenda included background on applicable regulations, Harbors General Permit requirements for Small MS4s, information on pollution prevention and good housekeeping, notification of upcoming facility inspections, the structure of the Inspection and Enforcement Program (IEP), emergency contact information, and a question and answer session. A copy of the presentation and tenant attendance record are provided as Appendix G.

Harbors Division has established a hotline for storm water information and discharge reporting. Please see BMP 2-1. The hotline is reachable by dialing (808)-587-1962. The effective start date of the hotline was 22 October 2009. Harbors Division is in the process of establishing a dedicated number for the environmental compliance hotline. The current hotline number is a direct line to the Harbors Division Environmental Engineer. The dedicated number or the environmental compliance line will be implemented in 2010. Harbors Environmental Section now maintains records of calls, follow-up inspection dates and findings, enforcement actions taken (if any), and resolutions in the Stormwater Hotline Occurrence Tracking (SHOT) form. There were no calls to the hotline in 2009. An example of the SHOT form is presented at Appendix H.

BMP 2-1 Tenant Education and Outreach

Goals: 1) Generate tenant awareness of stormwater pollution. 2) Engage tenant interest in preventing stormwater pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update mailing items as outreach and education problem areas are identified and recorded	Percentage of problem areas in education/outreach addressed by updated materials	100% of identified problem areas updated	Sept 2009	Weston Solutions, Inc. (Weston)	Items were updated.
	Percentage of tenants' feedback about the updates that are positive	At least 50% of feedback positive	NA	Harbors Environmental Section	No feedback received.
Review TSI responses from tenants	Percentage of tenants responsive to the TSI Form	Greater than 90% of tenants	Ongoing	Harbors Environmental Section	Received responses from 75.4% of combined Honolulu and Kalaeloa tenants to date.
Mail educational materials and reporting contacts to tenants	Number of educational materials distributed	100% of tenants received educational materials and reporting contacts	Registered mail receipt varies	Harbors Environmental Section	255 packets were mailed (one to each inventoried tenant)
	Responses on TSI Form show improvement in stormwater awareness	Completeness of TSI forms increasing from previous year	Registered mail receipt varies	Harbors Environmental Section	2009 baseline established
Establish a reporting/complaint tracking system to log response & enforcement activity	Create a hotline system for reporting violations and answering questions	Create and maintain one hotline number	22 Sept 2009	Harbors Environmental Section	Hotline established.
	Number of informational inquiries received via hotline	Number of inquiries increased from previous year	NA	Harbors Environmental Section	None

Number of hours to respond to complaint from time call is received.	Respond to all reporting/complaints within 24 hrs to minimize water quality impacts or recurrent dumping	NA	Harbors Environmental Section	NA
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2.3 GENERAL PUBLIC EDUCATION AND OUTREACH

Public education aims to create awareness and prompt behavioral changes. Equipped with information, the public will be less likely to contribute to water pollution as they will be able to make informed choices. Educating the public with this knowledge and contact information for appropriate authorities will increase the likelihood that a violation or accidental release will be reported. The responsibility for tenant public education falls under the HDOT Harbors Division Environmental Section, which consists of an Environmental Engineer and an Environmental Health Specialist.

Public education activities prior to 2009 have included posting signs that advise against dumping or discarding inappropriate materials where they may be carried into Harbor waters at visible public locations, such as harbor entrances, comfort stations, meeting areas, and garbage collection stations. Please see BMP 2-2.

The Harbors website is under construction, but currently provides information about water quality issues emergency reporting numbers and links to useful sections of the USEPA website. Please see BMP 2-2. The website can be accessed at <http://hawaii.gov/dot/harbors>.

In 2009 Harbors teamed with other State agencies and companies to put an advertisement in a local newspaper, the Honolulu Advertiser, concerning stormwater pollution control. Please see BMP 2-2. The goal of this advertisement was to increase public awareness of stormwater issues and provide continuing public education. Harbors Division will continue to foster relationships with other State agencies and develop new programs for public education and outreach in 2010. A proof of the advertisement and invoice are located in Appendix I.



Ad placed in Honolulu Advertiser

BMP 2-2 General Public Education and Outreach

Goals: 1) Generate tenant awareness of stormwater pollution. 2) Engage tenant interest in preventing stormwater pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Post or construct signage at visible public locations	Visible areas covered by "No Dumping" signs	Signs are hung at additional visible public locations	Prior to 2009	Harbors Environmental Section	Re-evaluate signage in 2010
	Storm drains with "flows to ocean" stenciling	Number of drains stenciled	Prior to 2009	Harbors Environmental Section	Conduct stenciling program in 2010
	Track the amount of inappropriate materials dumped and correlate this data to the timing of public sign posting to gauge any change of public behaviors over time	The amount of polluting material generated by dumping or discarding has been reduced	NA	Harbors Environmental Section	Observations to be conducted in 2010
Create/update runoff water quality presentations on Harbors Division website	Create/update presentation and post to website	Presentation is posted	Ongoing	Weston/Harbors Environmental Section	Presentation created, website posting to be completed in 2010
Measure dissemination and effectiveness of water quality presentation	Percentage increase in presentation viewing, measured by number of hits on presentation website	Increase viewing from previous year	TBD	Harbors Environmental Section; Harbors web master	Website posting to be completed in 2010
Set up and solicit a volunteer cleanup or storm drain stenciling activity	Participation in activities.	At least one of the listed activities	NA	Harbors Environmental Section	No activity.
	Number of employee and public participants	An increase in participation from previous year	NA	Harbors Environmental Section	NA
Post public awareness advertisement in local newspaper or magazine to educate the general public on stormwater pollution control	Number of advertisements sponsored	One per year	18 Oct 2009	Harbors Environmental Section	One advertisement posted in the Honolulu Advertiser. See Appendix I.

2.4 VESSEL OPERATORS EDUCATIONAL PROGRAM

Outreach to vessel operators docking at Harbors Division facilities ensures their awareness that the discharge of pollutants, including vessel equipment wash water and polluted deck wash-down water, to receiving waters within the harbors is prohibited. A used oil educational flier was distributed to vessel operators and is available in the revised SWMP (December 2009).

The Marine Cargo Specialists monitor loading and unloading procedures for the major vessels in the Harbor. Their duties include tracking compliance with various aspects of the process including stormwater pollution control compliance. Harbors has not yet implemented its tracking system of Marine Cargo Specialist monitoring records. The monitoring records will be tracked following Marine Cargo Specialist training to be completed in 2010. Please see BMP 2-3.

BMP 2-3 Expand the Educational Program to Vessel Operators

Goal: Minimize discharge of pollutants to receiving waters within the harbors					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Marine Cargo Specialists will Monitor ship cargo loading and unloading to prevent discharges of pollutants	Frequency of monitoring activity at loading/unloading zones	Increasing frequency	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	To be implemented in 2010
	Number of Marine Cargo Specialist Attending Annual Stormwater Training	Increasing attendance	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	Training to occur in 2010
	Number of actions taken as a result of loading and unloading monitoring	For informational purposes	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	To be documented in 2010
Develop and maintain inventory of ships agents responsible for tracking vessel operators and provide educational materials	Percentage of ships agents in inventory	100% of ships agents identified	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Inventory will be developed in 2010
	Percentage of ships agents receiving educational materials	100% of ships agents received materials	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Educational materials to be distributed in training in 2010

2.5 INSPECTION AND PROGRESSIVE ENFORCEMENT PROGRAM

A tenant and user inspection and enforcement program has been developed as part of Harbor's Environmental Management System (EMS). This program identifies tracks, inspects and ensures compliance with the Harbor Division's tenant lease agreements and TRPs. Please see BMP 2-4. As part of the inspection and progressive enforcement program, the inventory of businesses and industries currently operating at the Harbor has been updated (Appendix C). Please see BMP 2-4. Inspection and Illicit Discharge Detection and Elimination (IDDE) findings are further discussed in Section 4.0.

Harbors is in the process of inspecting each of its tenants by December 31st, 2010. 47 tenants of Honolulu Harbor and 5 tenants of Kalaehoa Harbor (with 2 tenants located at both harbors), totaling 50 high-priority tenants were inspected between December 3rd, 2009 and December 14th, 2009. Please see BMP 2-4. These tenants were selected to be inspected this year based on their perceived risk level. Inspection of and outreach to commercial and industrial tenants was conducted to ensure the following:

- ✓ Establish a baseline of the level of compliance of tenants and where outreach efforts should be focused;
- ✓ The facility operator has been made aware of stormwater pollution prevention requirements and the consequences of non-compliance;
- ✓ The facility operator is in compliance with its tenant lease agreement or TRPs;
- ✓ Unauthorized non-stormwater discharges do not occur at the facility; and
- ✓ Illicit connections are not present at the facility.

Harbors Division will respond to violations observed during these inspections in accordance with the SWMP. Inspection findings will be added to the database upon completion in January 2010. Please see BMP 2-4.

Overall each of the tenants showed a willingness to cooperate and improve their compliance with stormwater regulations. In most cases the tenant was unaware that their discharges were illicit or that administrative and engineering controls were required.

Certain inspection findings presented an immediate threat to stormwater. These findings included vehicle washing in progress and sinks and hoses that discharged onto the asphalt that showed obvious signs of hand washing using detergents. In these cases tenants were told to immediately discontinue the activity and take measures to prevent the activity in the future.

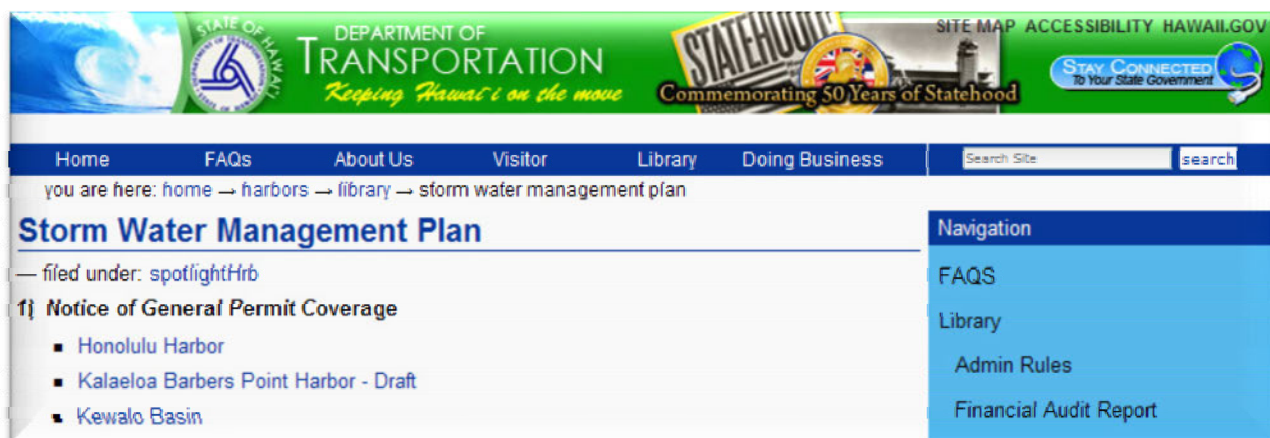
A summary of major inspection findings and actions taken are provided as Appendix J.

BMP 2-4 Inspection and Progressive Enforcement Program

Goal: Identify, track, inspect and ensure compliance with the Harbor Division's tenant lease agreements and TRPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update inventory of businesses and industries currently operating at the Harbor	Frequency of inventory update	Once	Ongoing	Harbors Division	Inventory is being updated as data continues to be acquired
Create/update database to record and track tenant inspection findings, enforcement actions, and resolutions.	Database is created and functional	100% of inspections are recorded in the database	Dec 2009	Harbors Environmental Section	Database is located at Harbors Division office
Conduct initial inspection at all commercial and industrial tenant facilities (refer to BMP 4-2 for follow-up inspection)	Percentage of commercial and industrial tenant facilities inspected	50 tenants in 2009. 100% in 2010.	Dec 2009	Harbors Environmental Section, Weston, HDOT	50 tenants were inspected in 2009, 5 of which were at Kalaeloa Harbor.
Add inspection findings and enforcement taken to database	Number of sites for which inspection findings, enforcement actions, and resolutions are added to database	100% of sites	Ongoing	Harbors Environmental Section	Tenant inspection findings will be completed in January 2010 whereupon they will be included in the database.

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3.0 PUBLIC INVOLVEMENT/PARTICIPATION



3.1 PERMIT REQUIREMENTS

<http://hawaii.gov/dot/har>

HAR, Chapter 11-55, Appendix K, Part 6(a)(2). *Include users of the permittee's small municipal separate storm sewer system in developing, implementing and reviewing the stormwater management plan;*

3.2 RECEIVE PUBLIC FEEDBACK ON SWMP

Public participation is intended to raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.

Public awareness of stormwater quality issues is targeted to solicit comment by informed members, which may lead to a better and more effective plan and implementation. Harbors Division has invited public involvement and participation during the previous NGPC term by posting the SWMP to the Harbors Division website.

The current SWMP is in draft review with HDOH and USEPA Region IX; therefore no tenant or public comment has yet been solicited by Harbors Division. When the SWMP is ready for public comment, Harbors will post it on the website and request for comments. Comments that are received will be tracked. Please see BMP 3-1.

BMP 3-1 Receive Public Feedback on SWMP

Goal: To raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Ensure notification to harbor tenants of SWMP development capability	Percentage of tenants notified	100% of tenants notified	NA	Harbors Environmental Section	Not performed. SWMP still in draft review
Post the Draft SWMP to the Harbors website during public comment window	Number of people who viewed the SWMP online	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review
	Number comments received for SWMP revision	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review
Develop system for tracking comments and change produced by comments	Percentage of comments tracked	100% of comments tracked	NA	Harbors Environmental Section	Not performed. SWMP still in draft review

4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION



Kaunakakai Harbor, Hawaii. February 2006.

4.1 PERMIT REQUIREMENTS

HAR Chapter 11-55 Appendix K Part 6.(a)(3). Develop, implement and enforce a program to detect and eliminate illicit discharges that at a minimum includes the following:

- (A) Establishment of rules, ordinances or other regulatory mechanism, including enforcement procedures and actions, that prohibit non-stormwater discharges, except those listed in section 1 that do not cause or contribute to any violations of water quality standards, into the permittee's small municipal separate storm sewer system,*
- (B) Procedures to detect and eliminate illicit discharges (as defined in 40 CFR Section 122.26(b)(2)), and*
- (C) Compilation of a list of non-stormwater discharges or flows that are considered to be significant contributors of pollutants and the measures to be taken to prevent these discharges into the permittee's small municipal separate storm sewer system, or reduce the amount of pollutants in these discharges.*

4.2 REGULATORY MECHANISMS IN-PLACE

Existing rules and ordinances that prohibit non-stormwater discharges are in place and include the following citation from HAR Title 19, Chapter 42, Section 127: no person shall "place, throw, deposit, or discharge, or cause to be placed, thrown, deposited, or discharged into the waters of any harbor, river or shore waters of the State any litter, or other gaseous, liquid or solid materials which render the water unsightly, noxious or otherwise unwholesome so as to be detrimental to the public health and welfare or a navigational hazard. No person shall discharge oil sludge, oil refuse, fuel oil or molasses either directly or indirectly, or pump bilges or ballast tanks containing other than clean water into the waters of any harbor, river or into any shore waters in the State."

The rules are made enforceable by Title 19, Chapter 41 Section 12 which grants the HAR the full force and effect of law pursuant to sections 266-2, 266-3, 266- 4, and 266-25, Hawaii Revised Statutes (HRS). The enforcement of these rules shall also be pursuant to the provisions of section 26-14.6, HRS. The violation of these rules shall be subject to penalties as set forth in section 266-25, HRS, and the IEP.

Further, HAR Title 19 Chapter 42 Section 15 requires compliance with Federal, State, and County laws, ordinances and rules, and in particular rules of the HDOH pertaining to air and water pollution.

TRPs and tenant lease agreements incorporate language which requires compliance with all stormwater quality regulations. Copies of “Lease Agreement Addendum 1, Environmental Compliance - Lessee’s Duties” and an excerpt from the Standard Revocable Permit form, “Section 26. Special Terms and Conditions, Environmental Compliance - Permittee’s Duties” are provided in the SWMP and Appendix B.

4.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION PLAN

Harbors Division has developed an IDDE plan as part of its SWMP in an effort to eliminate discharges that the established storm drainage system is not designed to accept, process, or discharge.

In accordance with its IEP, Harbors conducted inspections of 47 tenants at the Honolulu Harbor and 5 tenants at the Kalaeloa Harbor (2 tenants were present at both harbors), totaling 50 tenants in December of 2009, as stated in Section 2.5. Included in this task was the creation of comprehensive lists and maps indicating the locations and quantities of various Non-Stormwater Discharges (NSWDs), potentially polluting materials, and BMPs in use at the facilities. The inspection findings will be completed February of 2010.

The resultant inspection report for each inspection will be sent to each tenant in 2010. The inspection reports contain the following:

- ✓ An explanation the objective of the inspections;
- ✓ Tenant contact information;
- ✓ A summary of inspection observations;
- ✓ Personnel training requirements;
- ✓ Site map showing locations of petroleum, solvents, storm drains, and drainage; and
- ✓ Photo log.

Observations include industrial activity, petroleum and solvent storage quantities, mode of storage, potential pollution sources, a description of site drainage, observed BMPs, and required BMPs.

In some cases where discrepancies showed an immediate threat to water quality, tenants were asked to rectify the discrepancy during the inspection. For example, in cases where the discrepancy was an outdoor sink that discharged onto the ground, tenants were instructed to remove the sink from service immediately. Discrepancies that could not be immediately rectified were communicated to the tenant representative and noted. A summary of these actions can be found in Appendix J.

Overall, all tenants that had discrepancies were unaware of storm water regulations pertaining to the issue and showed willingness to comply immediately.

4.3.1 Update Storm Sewer System Map

The most up-to-date MS4 outfall map is included as Appendix K of this document. The map contains outfall locations, drain and piping locations, and outfall IDs. Please see BMP 4-1.

BMP 4-1 Update Storm Sewer System Map

Goal: Develop a comprehensive infrastructure map of the MS4 storm drain system					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update outfall maps to identify sources of outfall discharges and outfall conditions	Percentage of outfalls that have sufficient, up-to-date information	100% of outfalls	30 Dec 2009	Harbors Environmental Section	Outfall maps were submitted with SWMP
	Sources of outfall discharges identified	100% of sources identified	NA	Harbors Environmental Section	Not yet identified

4.3.2 Outfall Reconnaissance Inventory (ORI)

An annual dry weather ORI was performed on 19 September 2009. The ORI was made at low tide and describes outfall conditions, flow characteristics, and descriptions of the surrounding areas. Wet weather observations were not conducted in 2009. Records of outfall inspections are included as Appendix L. Please see BMP 4-2.

The summary of findings of the 2009 ORI are as follows:

KALAELOA HARBOR

- ✓ Evidence of an oil spill was noted on the Pier 5 face. The spill had been cleaned using sand; however sand remained in certain areas near and inside the trench drain.
- ✓ Four trench drains on aprons of Piers 5-7 contained sand.
- ✓ A crushed rock loading operation at Piers 5-6 showed a high likelihood of causing gravel to be deposited in the trench drains.
- ✓ A several square-yard area of mud was noted between gravel piles at Piers 5-6.
- ✓ At the same location, coal conveyor trench covers had been removed and coal dust was found on the floor of the conveyor trench. Trenches on both sides of the coal and cement loader rails were nearly full of coal dust.
- ✓ An area of cement spatter immediately next to the face of Pier 6 was noted.
- ✓ Trench drain grates at the beginning of Pier 7 were heavily coated with cement.
- ✓ Grate inlet DI 16-1 near the cement conveyor/office was covered with coal dust.

These reports will be analyzed to determine what actions are needed during 2010. These analyses will be included into a database, along with controls that are being used to mitigate pollutants in permitted NSWDS. Please see BMP 4-2.

BMP 4-2 Outfall Reconnaissance Inventory

Goal: Establish and carry out procedures to identify and remove illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Dry weather visual inspection of outfalls	Percentage of outfalls inspected	100% of outfalls inspected on-time	19 Sept 2009	Harbors and EKNA Services, Inc. (EKNA)	Completed
Wet weather inspections of outfalls	Percentage of outfalls inspected	20% of outfalls inspected on-time	NA	Harbors Environmental Section	Not performed

Goal: Establish and carry out procedures to identify and remove illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Collect and analyze reports of illicit discharges.	Number of apparent illicit discharges reported.	100% of illicit discharges found	2 Oct 2009	EKNA	No illicit discharges found.
Input inspection findings into database.	Percentage of findings input into database	100% of findings	Sept 2009	Harbors Environmental Section	100% of ORI findings input into database
Ensure proper measures and controls are implemented to mitigate pollutants in permitted NSWDS	Number of permitted NSWDS found that lack proper controls	Reduced from previous year	NA	Harbors Environmental Section	No permitted NSWDS exist to date
Document these controls in a database with tenant information and TMK	Percentage of permitted NSWDS recorded in database	100% of identified permitted NSWDS	NA	Harbors Environmental Section	NA

4.3.3 Illicit Discharge Reporting

The Harbors Division Environmental Section collects and records reports of stormwater quality violations through its stormwater hotline. Calls are recorded on the SHOT form, available in the SWMP and in Appendix H of this document. There were no illicit discharges reported through the hotline in 2009. The hotline will be advertised in future educational mailings and educational workshops. Please see BMP 4-3.

Harbors Grounds Maintenance personnel may complete a Pier Inspection Form to record observations of illegal discharge incidents. The 2009 log was not available to include in the ACR, however it will be included in future submissions.

BMP 4-3 Illicit Discharge Reporting

Goal: Encourage public education and involvement in eliminating illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Collect violation reports from the Marine Traffic Control Center	Percentage of violations reported	100% of violation reports collected	Continuous	Harbors Environmental Section	Follow up conducted as needed
Record report of illegal discharge incidents	Keep Marine Cargo Specialist inspection reports on-file.	100% of Pier inspection reports are kept	TBD	Harbors Environmental Section	Marine Cargo Specialist inspection reports to follow 2010 training
Establish the illicit discharge/illegal dumping hotline	A hotline for citizens to report illegal dumping and suspicious discharges will be established in the first year. (See BMP 2-1)	Establish one hotline	22 Oct 2009	Harbors Environmental Section	Completed
Determine effectiveness of hotline	Number of illicit discharge/illegal dumps reported by citizens	Increasing from previous year	NA	Harbors Environmental Section	No calls received by Hotline in 2009
	Number of illicit discharges prevented or stopped due to call to hotline	Increasing from previous year	NA	Harbors Environmental Section	NA
Advertise hotline	The hotline will be advertised on an insert in each TSI mailing and on all stormwater pollution prevention signage	One TSI mailing insert per year and all signage	Registered mail receipt varies	Harbors Environmental Section	The hotline was advertised in TSI mailing in 2009

4.3.4 Inspection and Enforcement Plan

When an illicit discharge is determined to have taken place, appropriate action is taken against the responsible parties according to the IEP. This document establishes specific inspection

procedures, enforcement tools, and the progressive escalation of the tools with regard to the seriousness of the illicit discharge and the recalcitrance of the dischargers.

Harbors ranked each tenant based on the tenant's potential to contribute pollutants to the environment. See BMP 4-4. The results of the tenant risk rankings will be reevaluated for accuracy each calendar year. The tenant's ranking determines the frequency of inspection according to the IEP. High risk tenants will be inspected twice per year, medium ranking tenants will be inspected annually, and low ranking tenants will be inspected biannually. A summary of tenant rankings and inspection frequencies will be completed in the 2010 ACR following the inspection of all Harbors tenants.

Harbors Division maintains records, including inspection reports, warning letters, notices of violation, resolutions, and other enforcement records, demonstrating its good faith effort to bring tenant facilities into compliance with applicable requirements. Tenants are provided with inspection findings in the form of a letter.

BMP 4-4 Inspection and Enforcement Plan

Goal: Eliminate illicit discharges through inspection and enforcement.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Establish/update ranking of tenants according to Inspection and Enforcement Manual	Percentage of tenants ranked	100% of tenants ranked	28 Jan 2010	Harbors Environmental Section	Rankings will be completed in February 2010.
Perform initial investigation upon discovery or notification of a suspected illicit discharge or connection.	Percentage of reports investigated	100% investigated	NA	Harbors Environmental Section	Performed initial inspection during IDDE inspection.
Follow up investigation of illicit discharge	Percentage of investigations followed up	100% Follow up	NA	Harbors Environmental Section	100%
If enforcement action has taken place, perform follow up inspection within two weeks of initial inspection	Same as above	Same as above	NA	Harbors Environmental Section	No enforcement actions.
Initiate investigation of complaints transmitted by HDOH regarding facilities within its jurisdiction	Percentage of reports investigated	100%	NA	Harbors Environmental Section	No complaints by HDOH.

4.3.5 Employee Training

Harbors Division annually provides initial and refresher NPDES training to key personnel to instruct personnel at all levels of responsibility concerning the components and goals of the SWMP. Please see BMP 4-5. The instruction addresses the following areas:

- ✓ Regulatory requirements,
- ✓ Materials management practices including proper storage, handling, and use of materials,

- ✓ Good housekeeping and criteria for clean working environment,
- ✓ Recognizing conditions that could lead to degraded runoff water quality,
- ✓ Identifying and notifying responsible parties,
- ✓ Taking action to correct conditions that could result in stormwater pollution,
- ✓ Warning and enforcement procedures, and
- ✓ Recording incidents.

A record of attendees at each NPDES training session is kept and is available in Appendix M.

As stated in the SWMP, by no later than March 1, 2010 and annually thereafter, Harbors Division will train all employees who are responsible for identification, investigation, elimination, cleanup and reporting of illicit connections and other illicit discharges.

BMP 4-5 Employee Training

Goal: Eliminate illicit discharges through training of essential personnel.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop stormwater IDDE training materials	Training materials address all relevant IDDE aspects and are up to date	IDDE is addressed	TBD	Harbors Environmental Section, Weston	To be conducted in 2010
Train all employees who are responsible for identification, investigation, elimination, clean-up, and reporting of illicit connections/discharges	Frequency of employee training Number of employees trained	Once per year Train all applicable employees	TBD	Harbors Environmental Section, Weston	To be conducted in 2010

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5.0 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL



5.1 PERMIT REQUIREMENTS

Drain Inlet Control, Barbers Point. January 2006.

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce storm runoff pollutants entering the permittee's small municipal separate storm sewer system from construction activities disturbing one acre or more, including construction activities less than one acre that are part of a larger common plan of development or sale that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances and other regulatory mechanism, including enforcement procedures and actions, that require erosion and sediment controls,*
- (B) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices,*
- (C) Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts on water quality,*
- (D) Procedures for site plan review of construction plans which incorporate consideration of potential water quality impacts,*
- (E) Procedures for receipt and consideration of information submitted by the public,*
- (F) Procedures for site inspection and enforcement of control measures.*

5.2 CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

A Construction Site Runoff Control Program (CSRCP) has been developed and included as part of Harbor's SWMP in order to establish rules, ordinances, and other regulatory mechanisms in order to:

- ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
- ✓ Require erosion prevention and sediment controls at all construction projects;

- ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and
- ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.

The CSRCP includes the following:

- ✓ Construction site plan reviews;
- ✓ Pollution prevention;
- ✓ Source identification;
- ✓ BMP implementation;
- ✓ Construction site inspections;
- ✓ Enforcement measures;
- ✓ Report of non-compliant sites; and
- ✓ Education outreach for construction site operators

5.2.1 Required Document Review

Harbor Division's CSRCP applies to all construction projects existing within its jurisdiction, regardless of size or ownership of the construction site or activity.

Each Section of the HDOT Engineering Branch, including Planning, Design, Construction, Maintenance, and Environmental, reviews construction plans for potential impacts in its operational area. The Harbors Division Engineering Branch reviews construction plans for potential stormwater quality impacts, and drainage connection and discharge permit applications. This review process is tracked and included in the ACR. Construction permit applications submitted in 2009 were reviewed by Harbors; however no list of projects is available for this 2009 ACR. A list will be provided in the 2010 ACR. Please see BMP 5-1.

Construction site operators are required to submit a Stormwater Pollution Prevention Plan (SWPPP) and a Notice of Intent (NOI) under the Hawaii NPDES General Permit Authorizing Discharges of Stormwater Associated with Construction Activity, HAR Chapter 11-55 Appendix C (the Hawaii Construction General Permit) for projects greater than 1 acre prior to approval. Harbors Division ensures that plans reflect the actual site conditions and are updated accordingly. Please see BMP 5-1. The HDOH Clean Water Branch implements NPDES requirements in Hawaii and administers review and granting of Individual and General Permit Coverage, however NOI requests for discharge of stormwater from industrial sites and SWPPPs have been routed to Harbors Division for review and comment.

TRPs and tenant lease agreements require compliance with all environmental laws and limit possession, usage and storage of hazardous wastes without lessor knowledge and consent.

Harbors Division requires that prior to new connections or discharge to the regulated drainage system, an application for a permit to connect and/or discharge must be made. Upon review and acceptance of the application, Harbors returns a permit for connection, a permit for discharge or comments explaining a denied connection or discharge.

Harbors Division again reviews construction plans and procedures during post-construction phases for stormwater considerations according to the Post-Construction Stormwater Management Program described in the SWMP. Please see BMP 5-1.

Best Management Practices are reviewed by HDOH Clean Water Branch during NPDES NOI review, and may be reviewed by the City and County of Honolulu if plans are routed through them. Please see BMP 5-1. Harbors Division personnel including Marine Cargo Specialists, the Harbor agent, and Construction Inspectors may note implementation of BMPs and contractor waste management practices, and have authority to take action in the event of noncompliance.

BMP 5-1 Required Document Review

Goal: Prevent sediment and erosion runoff from construction sites during the planning phase.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Review construction plans for potential impacts in respective areas	Percentage of construction plans reviewed	100% of plans reviewed	NA	All HDOT Engineering Branch Sections	List not available.
Review plans for stormwater considerations during pre- and post-construction phases	Percentage of construction plans reviewed	100% of plans reviewed	NA	Harbors Design, Maintenance and Environmental Section	Plans were reviewed; however the list is not available.
Review SWPPP, NOI, and discharge permit applications for construction projects	Percentage of documents reviewed	100% of documents reviewed	NA	Harbors Design, Maintenance and Environmental Section	None received
Review erosion and sediment BMPs and waste management practices	Percentage of sediment BMPs and waste management practices reviewed	100% of BMPs and waste management practices reviewed	NA	HDOH Clean Water Branch, City and County of Honolulu, or Harbors Division	None received

5.2.2 Construction Site Best Management Practices

Construction site BMPs serve the purpose of preventing sediment and other pollutants created from construction activities from reaching waters. In many cases BMPs prevent sediment and pollutants from being dislodged from their original locations.

Harbors Division requires that construction site operators implement appropriate erosion and sediment control BMPs as well as any other BMPs that will reduce the flow of pollutant off-site to the MEP. Selected BMPs must demonstrate an understanding of the soil texture and sediment size such that the BMP chosen provides the maximum benefit to runoff control. Harbors Division requires construction site operators to prevent pollutants from sediment, erosion, and waste from entering the storm system by use of structural controls and BMPs.

5.2.3 Site Inspection and Enforcement

Construction sites are inspected for compliance with the stormwater-related requirements until construction is terminated, the site has been stabilized, and the site's NPDES construction permit has been closed. Inspections are at least once every two weeks during the months of October through April, then at least bi-monthly during the remaining months. Inspections ensure the following:

- ✓ Sediments generated at the project site are retained using adequate source control and structural BMPs;
- ✓ Construction-related materials and wastes are retained at the project site to avoid discharge to the storm sewer and waters of the United States;
- ✓ Unauthorized non-stormwater runoff is contained at the project site; and
- ✓ Erosion from slopes and channels are controlled by implementing an effective combination of erosion and sediment control BMPs, such as limiting grading during the wet season; inspecting graded areas during rain events; planting and maintenance of vegetation on slopes; and covering slopes susceptible to erosion.

Enforcement is executed according to the IEP located in Harbor Division's EMS Manual.

Reports include a list of all construction projects, inspection dates, and resolution of any violations of stormwater-related requirements.

The construction inspection program will be implemented in 2010. Please see BMP 5-2.

BMP 5-2 Site Inspection and Enforcement

Goal: Ensure implementation of BMPs and controls by construction site operators through inspection and enforcement.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Perform inspections of permitted construction sites for implementation of construction site BMPs	Frequency of inspection	At least once every two weeks during the months of October thru April, then at least bi-monthly during the remaining months	NA	Harbors Division, Site Inspectors	Program not yet implemented
	Number of construction sites inspected	100% of construction sites	NA	Harbors Division, Site Inspectors	NA
Incorporate inspection of stormwater components into inspection program	Construction site stormwater deficiencies are reduced	Deficiencies are reduced from previous year	NA	Harbors Division, Site Inspectors	Program not yet implemented
Keep a list of all construction projects, inspection dates, and resolution of any violations for the annual reports	Completeness of inventory	100% of construction sites, inspections, resolutions, and violations recorded	NA	Harbors Construction and Environmental Section	Program not yet implemented

5.2.4 Receipt of Public Input

Harbors Division remains open to public comment and illicit/NSWD reporting. The public is able to contact Harbors Division via hotline, email, website, or mail. Communications are logged on the SHOT form and appropriate responses are made. No public input was received during the 2009 period. Please see BMP 5-3.

BMP 5-3 Receipt of Public Input

Goal: To remain receptive public to opinion and involvement					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Accept and follow up on public reporting and record outcome	Track number of public reports	Increase from previous year	NA	Harbors Environmental Section	None received

5.2.5 Training and Outreach

Harbors Division employees who are responsible for construction plan review and site inspections will be trained annually in the requirements of the SWMP and Hawaii General Permits. Currently, training has not taken place but is planned for 2010. Please see BMP 5-4.

Education and outreach will be provided for stakeholders. Harbors Engineering Branch has not yet developed educational materials. These educational materials are planned to be included in an educational package to be distributed during the pre-construction meeting. Educational materials will include construction stormwater BMPs and will be available electronically on the website or in hard copy upon request. Please see BMP 5-4. The intent of these educational materials is to make certain that the site manager or onsite coordinator is aware of the proper installation and maintenance procedures for construction stormwater BMPs.

5.2.6 Dredge Spoil Stockpile Management Plan

As part of the 2009 SWMP, Harbors developed a dredged spoil stockpile management plan for implementation of erosion and sediment control BMPs, the purpose of which is to prevent both wind-and water-caused erosion of the stockpiled materials. Existing stockpiles and stockpile control measures were investigated during 2009 in order to create the stockpile management plan.

Stockpile management activities for 2010 will follow the first phase of the plan, which includes surveying stockpiles to further investigate topography, surrounding channels and vegetation, and soil composition.

BMP 5-4 Training and Outreach

Goal: Foster widespread knowledge of construction BMPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop internal training materials for plan review staff and inspectors	NA	NA	NA	Harbors Environmental Section	To be developed in 2010
Conduct training for employees who are responsible for construction site inspections	Educate construction inspectors about proper selection, installation, inspection, and maintenance of BMPs	100% of construction site inspectors received education	NA	Harbors Environmental Section	Training to be conducted in 2010
Provide educational materials for plan reviewers	Percent of plan reviewers receiving educational materials	100% of plan reviewers received educational materials	NA	Harbors Construction and Environmental Section	To be developed in 2010
Provide educational package to construction sites	Percentage of construction sites covered	100%	NA	Harbors Engineering Branch	To be developed in 2010
Post educational materials on Harbors website	Increase views to website	Increased views from previous year	NA	Harbors Web Master	To be posted in 2010

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6.0 POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT



6.1 PERMIT REQUIREMENTS

Vegetated Swale, Kahului, Hawaii

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce pollutants in storm runoff entering the permittee's small municipal separate stormwater sewer system from new development and redevelopment projects which disturb greater than or equal to one acre, including construction sites less than one acre that are part of a large common plan or development or site that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances, and other regulatory mechanism, including enforcement procedures and actions, that address post-construction runoff from new development and redevelopment projects,*
- (B) Structural or non-structural best management practices to minimize water quality impacts and attempt to maintain pre-development runoff conditions, and*
- (C) Procedures for long-term operation and maintenance of best management practices.*

6.2 POST-CONSTRUCTION STORMWATER MANAGEMENT PROGRAM

Harbors Division has developed a Post-Construction Stormwater Management Program as part of its SWMP for polluted stormwater discharges from areas of new development and significant redevelopment. This program includes project reviews based on the post-construction erosion control NPDES permit regulations and the Development Standards requirements. The purpose of the post-construction program is to provide a mechanism by which ongoing protection of stormwater quality can be addressed and attained.

Post-construction stormwater management is also addressed in part by the preceding minimum control measures: public education and outreach, public involvement and participation, and illicit discharge detection and elimination.

6.2.1 Construction Permit Review Process

As part of the NPDES program, HDOH Clean Water Branch administers review of projects that are equal to or greater than one acre in size. Applicants for coverage under the Nationwide General Permit or Individual Stormwater Discharge Permits submit applications including descriptions of the project scope and schedule, contractor, past land use history, existing conditions and potential pollution sources, construction and post-construction site-specific BMPs.

Harbors Division's review process has the goal of maintaining or improving pre-development runoff conditions. As such, Harbors requires construction applicants to perform a pre- and post-development hydrological analysis to protect natural channels from erosion, to size storm drainage infrastructure, and to address flooding.

Harbors Division identifies controls that provide treatment and reduce stormwater volume and velocity. Harbors Division also ensures that on-going maintenance of BMPs is provided in the plans and properly executed, as BMPs are not effective unless properly maintained.

No NPDES Permit and LIDS compliance applications were received in 2009. Please see BMP 6-1.

BMP 6-1 Review NPDES Permit Application

Goal: To ensure that long-term controls are in place to prevent degradation of stormwater					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Review NPDES Permit and LIDS compliance applications	Percentage of applications reviewed	100% of applications	NA	Harbors Division Environmental, Design and Maintenance Sections	No applications received.

6.2.2 Low Impact Development Standards Plan

Harbors Division has developed a low impact development standard (LIDS, see SWMP) that requires measures to reduce pollution discharges to the MEP from all new development and significant redevelopment projects. The LIDS requirements apply to all new development and significant redevelopment projects.

Significant redevelopment includes, but is not limited to expansion of a building footprint, or replacement of a structure; replacement of impervious surface that is not part of a routine maintenance activity; and land-disturbing activities related to structural or impervious surfaces. Where significant redevelopment will result in an increase of less than 50 percent of the impervious surfaces of a previously existing development, and the existing development was not subject to LIDS, the BMP design standards apply only to the addition, and need not be applied to the entire development.

Implementation of LIDS and amendments of TRPs and tenant lease agreements will follow the completion of the Final SWMP. Please see BMP 6-2.

BMP 6-2 Low Impact Development Standards Plan

Goal: Reduce pollution discharges to the MEP from all new development and significant redevelopment projects					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Implement LIDS and amend tenant lease agreements and TRPs as necessary	Percentage of necessary lease agreement and TRP amendments conducted	100%	TBD	Harbors Environmental Section, Design and Maintenance	To be released with Final SWMP

6.2.3 Structural and Non-Structural BMPs

Post-construction stormwater quality efforts are currently addressed by Harbors Division through the following BMPs or integration of the following BMPs:

- ✓ Preserve undeveloped areas where such areas are not required by operations to be paved,
- ✓ Consider surface treatments for improved areas which retain rainfall and allow percolation rather than impervious surfacing which generates runoff, such as paver tiles in lieu of asphalt or concrete pavement,
- ✓ Preserve naturally occurring flat to low slopes in all areas, which minimize runoff concentration, quantity, velocity and erosive capability,
- ✓ Where runoff flows are concentrated, provide durable drainage systems sized to convey peak flows,
- ✓ Review construction plans to provide and maintain grading which limits the area of the drainage basin discharging into the harbor,
- ✓ Continuously monitor operations to ensure that major tenants using pier aprons adequately clean the aprons upon completion of loading/offloading activities,
- ✓ Implement structural BMPs that reduce the quantity of storm runoff at the Harbor,
- ✓ Operational areas will be paved with reinforced concrete or asphalt concrete, to prevent erosion. These surfaces will also allow spills of materials to be cleaned up,
- ✓ Maintain minimal to low slopes throughout improved areas (access roadways, piers and aprons) where surfaced with asphalt or reinforced concrete, which reduces runoff peak flow quantities and velocity.

Harbors Division evaluates current BMPs to determine if they sufficiently meet the requirements of the NPDES permit and, if they are lacking, Harbors Division requires tenants and contractors to implement the appropriate BMPs.

Post-construction storm water BMPs will be evaluated by Harbors during tenant inspections. No new post-construction BMPs were implemented during 2009. Please see BMP 6-3.

BMP 6-3 Structural and Non-Structural BMPs

Goal: Implementation of LID BMPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Evaluate current BMPs	Percentage of BMPs evaluated	100%	Ongoing	Harbors Construction and Environmental Section, Design and Maintenance	To be evaluated during tenant inspections
Enforce development & implementation of new post-construction BMPs	Percentage of site potential pollutants are prevented	100%	NA	Harbors Construction and Environmental Section, Design and Maintenance	No post-construction BMPs developed in 2009

6.2.4 Operation, Maintenance, and Inspections

Structural or non-structural BMPs are not considered effective, nor are MEP criteria met, unless a long-term operation and maintenance procedure is put into place and carried out. Upon completion of construction, assurance is required for the long-term operation and maintenance of structural and non-structural BMPs. This assurance program will be implemented by Harbors Division in 2010. Please see BMP 6-4.

BMP 6-4 Operations, Maintenance, and Inspections

Goal: To maintain effectiveness of BMPs through operations and maintenance plans					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Create database to track operation and maintenance practices	Create a database	Database has been created	NA	Harbors Environmental Section	To be created following tenant inspections
Perform scheduled operation and maintenance practices	On-time completion of maintenance practices	100% of O&M has been confirmed conducted	NA	Oahu District	BMPs yet to be identified
Inspect project for post-construction controls	Percentage of potential pollutants mitigated	Equal to maximum standard operating capacity	NA	Harbors Construction Environmental Section Inspectors and	No projects to perform inspections

6.2.5 Stakeholder Education and Outreach, Employee Training

Tenants are notified annually through the TSI form mailing that their TRPs and tenant leases require maintenance of post-construction runoff control measures in their premises. An educational packet will be sent to all stakeholders during the TSI mailing that includes:

- ✓ A post-construction BMP template
- ✓ BMP Checklist
- ✓ Questions relating to post-construction stormwater management on the TSI

Educational materials had not yet been developed for the 2009 TSI mailing, but will be developed for the 2010 TSI mailing. TSI mailing was sent out to tenants in September 2009. Please see BMP 6-5.

Harbors internal training has not been developed but will include guidance on the inspection of post-construction BMPs. Please see BMP 6-5. Inspection training will include proper operations and maintenance of typical post construction BMPs, indicators of BMP failure, and inspection techniques.

BMP 6-5 Stakeholder Education and Outreach

Goal: Create awareness with stakeholders and employees to reduce post-construction run-off.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop post-construction educational package	NA	NA	NA	Harbors Environmental Section	Educational materials to be developed in 2010
Distribute educational packet in TSI Mailing	Percentage of tenants in receipt of mailing	100%	NA	Harbors Environmental Section	Educational materials to be developed in 2010
Post information on Harbors Division website	Track number of views	Greater than previous year	NA	Harbors Web Master	Information to be posted in 2010
Conduct training	Percentage of employees and tenants trained	Greater than previous year	NA	Harbors Environmental Section	Training to be conducted in 2010

7.0 POLLUTION PREVENTION/GOOD HOUSEKEEPING



Hawaii Harbor (left) and Sand Island (right), January 2006

7.1 PERMIT REQUIREMENTS

HAR Chapter 11-55 Appendix K Part 6.(a)(4). *Develop, implement and enforce an operation and maintenance program to prevent and reduce stormwater pollution from activities, including but not limited to, park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance that, at a minimum, includes the following:*

- (A) *Good housekeeping and other control measures, and*
- (B) *Employee and contractor training on good housekeeping practices, to ensure that good housekeeping measures and best management practices are properly implemented.*

7.2 POLLUTION PREVENTION/GOOD HOUSEKEEPING PROGRAM

A Pollution Prevention/Good Housekeeping Program has been developed with the ultimate goal of preventing or reducing pollutant runoff. The program includes an internal record-keeping system to schedule and document the maintenance activities performed.

7.2.1 Maintenance and Housekeeping Practices

Maintenance is on-going at tenant and Harbors facilities. Please see BMP 7-1. The following maintenance activities are conducted:

- ✓ Emptying dumpsters and remove and dispose of discarded objects, machinery or equipment.
- ✓ Prompt repair/replacement of malfunctioning dumpsters
- ✓ General maintenance and repair of public facilities is conducted in-house, while a contractor is selected for most large projects.

- ✓ Grounds maintenance personnel-use fertilizer or herbicides in accordance with the manufacturer's instructions and in a manner that eliminates potential for runoff into the gutters, or storm drain system.
- ✓ Pier and apron cleanliness is assessed for debris and staining, and responsible parties notified to conduct cleaning as needed. Operators with leaking vehicles are required to park vehicles and equipment indoors/under cover, provide drip pans and repair leaks.
- ✓ Vehicle and equipment washing on Harbors property is prohibited unless performed in an approved wash facility.
- ✓ Clean up stains, spills, oil spots using dry cleanup methods.

7.2.1.1 Sweeping Common Areas and Select Tenant Facilities

Sweeping prevents microscopic pollutants from entering the ocean by removing them before they flow into the storm sewer. Regular sweeping is performed by Harbors Grounds Maintenance. Grounds Maintenance has four sweepers; one is dedicated to Kalaeloa Harbor. Sweeping is performed according to the following schedule:

Table 7-1 Grounds Maintenance Sweeping Schedule

Location	Frequency	Duration (Hours)
Kalaeloa Harbor Common Roadways & Apron	Twice per month	4

In addition, brooms were placed around storm drains at Kalaeloa Harbor to promote the upkeep of harbor drains.

All waste from Honolulu and Kalaeloa Harbors are combined and disposed of at the appropriate disposal contractors. Sweeper waste is disposed of at PVT Land Company (PVT). This year approximately 246 tons of sweeper waste was disposed of. Grounds Maintenance is also responsible for collection of trash, leaves and other debris, which prevents debris from blocking storm drains and causing localized flooding. In 2009 approximately 13.17 tons of green waste was disposed of at Hawaiian Earth Products, a green waste disposal company.

7.3 WASTE COLLECTION

Grounds Maintenance picks up and disposes of other potential pollutants left in drop off areas or discarded illegally by the public in order to prevent pollution to the environment. This includes automobile, boat, and motorcycle lead acid batteries, scrap steel, discarded used tires, and construction debris.

Table 7-2 is a compilation of the different types of waste collected by Harbors Division and their disposal destinations. Quantities listed are the combined amounts from both Honolulu and Kalaeloa Harbors. All disposal receipts are kept as supporting documentation of compliance with storm water regulations. Disposal receipts are provided as Appendix N of this document.

Table 7-2 Waste Destination and Amounts

Waste Type	Destination Facility	Amount
Lead Acid Batteries	Exide Technologies	1328 ea.
Green Waste	Hawaiian Earth Product	13.17 tons
Refuse	Covanta Energy Honolulu Resource Recovery	107.03 tons
Refuse	Waimanalo Gulch	68.34 tons
Sweeper Waste	PVT Land Company, Ltd.	246.23 tons
Recycled Steel	Shnitzer Steel Hawaii Corp.	25.74 tons
Discarded Tires	Unitek Solvent Services, Inc.	1826 ea.
Discarded Tires	Island Recycling Incorporated	26.26 tons

BMP 7-1 Maintenance and Housekeeping Practices

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Designate appropriate sweeping frequencies and perform sweeping	Percentage of facilities for which a written schedule is made and sweeping performed	100% of facilities	Common area schedule already in-place	Harbors Maintenance Management and Personnel; tenants	Common areas and facilities with contracts with Harbors are swept according to a schedule. Schedules from facilities that perform their own maintenance are not yet available.
Designate appropriate drainage system maintenance and perform maintenance according to priority	Percentage of drainage systems that have been designated as urgent that have been cleaned	100% of urgent drainage systems	On-going	Harbors Maintenance Management and Personnel; tenants	Drainage priorities not yet designated; however Kalaeloa Harbor drains were cleaned in 2009.
Provide general instructions for identification, storage, use, collection and treatment of drainage and housekeeping educational materials to tenants	Percentage of tenants to which educational materials have been provided	100% of tenants	October 2009	Harbors Environmental Section	Instructions Provided in Harbors Storm Water training and mailing attachments
Provide training to employees	Percentage of employees to whom training has been provided	100% of employees	Ongoing	Harbors Environmental Section	Maintenance staff has been trained on general stormwater pollution prevention and will have follow on training in 2010

7.3.1 Tenant Education and Employee Training

Tenants were educated at the annual Harbors training with pollution prevention and good housekeeping practices. A copy of the presentation given and a record of attendance are located in Appendix G. A video entitled, "Just Passing Through," by EXCAL Visual Communications, was shown during the presentation and topics including the following were discussed:

- ✓ Proper methods for cleaning equipment;
- ✓ Proper labeling and handling of cleaners, solvents, and chemicals;

- ✓ Organized chemical storage;
- ✓ Responsible disposal of chemicals;
- ✓ Storage procedures for stored metals;
- ✓ Proper site drainage;
- ✓ Proper equipment/material storage;
- ✓ Timely equipment operation and maintenance; and
- ✓ Proper site maintenance.

Slides depict examples of proper and improper BMPs were shown to illustrate acceptable procedures.

BMP 7-2 Tenant Education, Employee and Contractor Education

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop educational materials and distribute to tenants	Percentage of tenants in receipt of educational materials	100% of tenants	Oct 2009	Weston	TSI attachments provided information and tips on housekeeping practices
Hold training sessions for employees tasked with maintenance activities	100% of employees trained	100% of employees	Ongoing	Harbors Environmental Section	General awareness training conducted in 2009 and further training scheduled for 2010

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8.0 ADDITIONAL ANNUAL COMPLIANCE REPORT REQUIREMENTS

8.1 MODIFICATIONS TO THE SWMP

Per USAEPA Order for Compliance, paragraph 1, the SWMP was revised to more comprehensively detail specific BMPs that will be implemented for each of the program minimum control measures, with underlying rationale for their selection and inclusion; specify quantitative goals, metrics, and milestones for each of the BMPs; and the name or name or position title and affiliation of the person or persons responsible for implementation or coordination of each program component.

Harbors Division has made appropriate modifications to reflect the above requirements.

8.2 MODIFICATIONS TO THE SMALL MS4

No major modifications have been made to the Small MS4 during the 2009 calendar year. A copy of the outfall map is available in Appendix K.

8.3 SUMMARY OF PLANNED ACTIVITIES

8.3.1 Public Education and Outreach

- ✓ Use TSI responses to assess the effectiveness of the annual mailing program
- ✓ Add additional educational materials
- ✓ Record hotline inquiries and track response time
- ✓ Post signs that advise against dumping
- ✓ Post tenant training presentation on Harbors website
- ✓ Set up and solicit a volunteer cleanup or storm drain stenciling activity
- ✓ Sponsor a yearly advertisement in the newspaper
- ✓ Monitor ship cargo loading and unloading
- ✓ Develop and maintain an inventory of ships and agents responsible for tracking vessel operators
- ✓ Provide educational materials to vessel operators
- ✓ Keep tenant inventory up-to-date
- ✓ Conduct inspections of all tenants by December 31, 2010
- ✓ Add findings, follow-up to the database

8.3.2 Public Involvement

- ✓ Post SWMP to the Harbors website for public review and comment when completed
- ✓ Track comments and include them in the ACR for 2010

8.3.3 Illicit Discharge Detection and Elimination

- ✓ Create a comprehensive list of NSWDS and control measures for all tenants
- ✓ Continue procedures outlined in the IEP
- ✓ Conduct dry and wet weather ORI

8.3.4 Construction Site Runoff Control

- ✓ Dependent on construction plan submittal
- ✓ Perform construction site plan and permit reviews
- ✓ Report and implement enforcement procedures against construction sites that are found to be out of compliance
- ✓ Perform construction site inspections to identify possible sources of pollution and to ensure BMP's are providing an appropriate level of pollution prevention. Inspections will specifically target the following:
 - Require stockpiling or immediate access to materials for erosion prevention and sediment control.
 - Require erosion prevention and sediment controls at all construction projects;
 - Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and
 - Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.
- ✓ Execute Stockpile Management Plan

8.3.5 Post-Construction Storm Water Management

- ✓ Inventory existing BMPs if found during tenant inspections
- ✓ Perform follow-up construction site permit reviews
- ✓ Enforce the incorporation of Low Impact Development Standards into all new development
- ✓ Ensure structural and non-structural BMP's are in place post-construction to minimize water quality impacts and attempt to maintain pre-development runoff conditions
- ✓ Ensure the longevity of post-construction BMP's via the creation of a long-term operation and maintenance programs
- ✓ Generate and distribute educational materials in annual mailings to tenants and maintain educational materials on the Harbors Division Stormwater Management website
- ✓ Conduct annual tenant training workshop

8.3.6 Pollution Prevention/Good Housekeeping

- ✓ Continue the ongoing maintenance of tenant and Harbor's facilities
- ✓ Harbors will expand its maintenance program to include preventative maintenance of the storm drainage system, internal record keeping and scheduling, and appropriate training of employees
- ✓ Perform annual inspections and training to ensure tenant's compliance with employee training, pollution prevention, and good housekeeping requirements

8.4 BUDGET CONSIDERATIONS FOR PAST AND FUTURE ACTIVITIES

For budget considerations, please see "Current and Future Task Rough Order of Magnitude" located in Appendix O.

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APPENDIX A

HDOH 2007 LETTER OF NGPC EXTENSION

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

In reply, please refer to:
DOH/CWB

03KB488.EXT

October 19, 2007

The Honorable Barry Fukunaga
Director
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

Attention: Mr. Frederick S. Nunes, P.E.
Engineering Program Manager
Harbors Division

Dear Mr. Fukunaga:

**Subject: Administrative Extension of
Notice of General Permit Coverage (NGPC)
Kalaeloa Barbers Point Harbor
Kalaeloa, Oahu, Hawaii
File No. HI 03KB488**

The Department of Health (Department), Clean Water Branch (CWB) acknowledges receipt of your Notice of Intent (NOI) and \$500 filing fee for coverage under the National Pollutant Discharge Elimination System general permit provisions, in accordance with the Hawaii Administrative Rules (HAR), Section 11-55-34.08.

The Department is unable to complete the processing of your project's NOI prior to the current NGPC expiration date. Therefore, in accordance with HAR, Section 11-55-34.09(d), the Department hereby administratively extends the subject NGPC until a notice of renewed coverage under the applicable general permit is issued or until notified by the Department, whichever occurs first. Please note that the Department may request you submit additional information in order to complete the processing of your NOI for the renewed coverage.

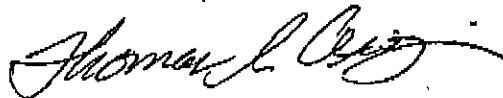
The Permittee shall not be held in violation of Hawaii Revised Statutes, Chapter 342D-6(h) and HAR, Chapter 11-55 during the pendency of its NOI, so long as it acts consistently with the NGPC presently granted. Any non-compliance with the conditions of the administratively extended NGPC may be subject to penalties of up to \$25,000 per violation per day.

It is the Permittee's responsibility to ensure that anyone working under this administrative extension of your NGPC understands and complies with the terms and conditions therein.

The Honorable Barry Fukunaga
October 19, 2007
Page 2

If you have any questions, please contact Ms. Joanna L. Seto, Supervisor of the Engineering Section, CWB, at 586-4309.

Sincerely,



FOR Chiyome Leinaala Fukino, M.D.
Director of Health

c: Mr. Randal Leong, DOT-HAR [via fax 587-1864 only]
Mr. Charles Schuster, EKNA Services, Inc. (w/Receipt No. 31732 for \$500 Filing Fee)

APPENDIX B

TENANT LEASE AGREEMENT AND TENANT REVOCABLE PERMIT

Lease Agreement Addendum 1

Environmental Compliance - Lessee's Duties

ADDENDUM 1

ENVIRONMENTAL COMPLIANCE – LESSEE'S DUTIES

A. Definitions.

For purposes of this Lease, Lessee agrees and understands that the following terms shall have the following meanings:

“Environmental Laws” shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

“Hazardous Substance” shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

B. Lessee's Activities and Duties.

1. Compliance with Environmental Laws. Lessee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the leased premises during the term of this lease, and Lessee's occupancy of, and activities on, the leased premises. This duty shall survive the expiration or termination of this lease which means that the Lessee's duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Lessee on the leased premises after the expiration or termination of this lease. Failure of the Lessee to comply with any environmental laws shall constitute a breach of this lease for which the Lessor shall be entitled, in its discretion, to terminate this lease and take any other action at law or in equity it deems appropriate. Lessee shall conform its operations with 49 CFR, Part 195 (Pipeline Safety), and shall install Time Domain Reflectivity (TDR) cable leak detection and monitoring equipment, which meet or exceed industry standards, adjacent to the fuel pipelines and related facilities, to provide an indication of any leak occurrence from any fuel pipeline or containment

device. In addition, the Lessee shall install a secondary containment wall/vaulting to prevent releases into the environment. The Lessee shall also develop, implement, and follow a written integrity management program that addresses the risks of each pipeline, and provides for periodic assessment of the integrity of each pipeline through internal inspection, pressure testing, or other equally effective assessment means, on a regular basis.

2. Hazardous Substances. Lessee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third person, on the leased premises (with the exception of the intended routine management of the petroleum products within the proposed pipeline) without first obtaining the written consent of the Lessor and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this lease.

3. Notice to Lessor. Lessee shall keep Lessor fully informed at all times regarding all environmental law related matters affecting the Lessee or the leased premises. This duty shall include, without limited the foregoing duty, providing the Lessor with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the leased premises and with evidence that the Lessee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation, or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Lessee by any federal or state authority, or individual, which relates in any way to any environmental law, or any hazardous substance, and the Lessee or the leased premises. As part of this written notice to the Lessor, the Lessee shall also immediately provide the Lessor with copies of all written communications from individuals, or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Lessee. At least thirty days prior to termination of this lease, or termination of the possession of the leased premises by Lessee, Lessee shall provide the Lessor with written evidence satisfactory to the Lessor that Lessee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Lessee that relate to the leased premises.

4. Notice to Authorities. Lessee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty days prior to the termination of this lease, or sixty days prior to Lessee's termination of possession of the leased premises, whichever occurs first, that Lessee intends to vacate the leased premises and terminate its operations on those leased premises. Lessee shall allow the agents or representatives of said authorities access to the leased premises at any and all reasonable times for the purpose of inspecting the leased premises, and taking samples of any material for inspection or testing for compliance with any environmental laws. Lessee shall provide copies of said written notices to Lessor at the time said notices are provided to said authorities.

5. Disposal/Removal. Except for materials that are lawfully sold in the ordinary course of the Lessee's business, Lessee shall cause any hazardous substances to be removed from the leased premises for disposal, and to be transported from the leased premises solely by duly licensed hazardous substances transporters, to duly licensed facilities for final disposal as

required by all applicable environmental laws. Lessee shall provide Lessor with copies of documentary proof, including manifests, receipts, or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.

6. Environmental Investigations and Assessments. The Lessee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the leased premises to determine the presence of any hazardous substance on, in, or under the leased premises as may be directed from time to time by the Lessor, in its sole discretion, or by any federal or state authority. The extent and number of any environmental investigations and assessments shall be determined by the Lessor or the federal or state authority directing said investigations and assessments to be conducted. Lessee shall retain a competent and qualified person or entity that is satisfactory to the Lessor or governmental authority, as the case may be, to conduct said investigations and assessments. Lessee shall direct said person or entity to provide the Lessor or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water, or other material that may be obtained for testing, and provide to the Lessor and the governmental authority written results of all tests on said samples upon completion of said testing.

7. Remediation. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the leased premises, Lessee shall, at its sole expense and cost, remediate the leased premises of any hazardous substances, and dispose/remove said hazardous substance in accordance with paragraph 4. This duty to remediate includes strictly complying with all environmental laws and directives to the Lessee to remediate said hazardous substance from the Lessor. This duty to remediate shall include replacement of any materials, such as soils, so removed with material that is satisfactory to the Lessor and governmental authority, as the case may be. In the event Lessee does not remediate the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the remediation is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of remediation.

8. Restoration and Surrender of Premises. The Lessee hereby agrees to restore the leased premises, at its sole cost and expense, including the soil, water and structures on, in, or under the leased premises to the same condition as the premises existed at the commencement of this lease, fair wear and tear to the structures excepted. In the event Lessee does not restore the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the restoration is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of restoration.

9. Lessor's Right to Act. In the event Lessee fails for any reason to comply with any of its duties under this lease or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the Lessor, Lessor shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Lessee

hereby grants access to the leased premises at all reasonable hours to the Lessor, its agents, and anyone designated by the Lessor in order to perform said acts and duties. Any cost, expense, or liability of any type that may be incurred by the Lessor in performing said acts or duties shall be the sole responsibility of the Lessee, and Lessee hereby agrees to pay for those costs and expenses, and indemnify the Lessor for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of Lessor's right to act, including litigation costs, attorneys fees, and the costs and fees for collection of said cost, expense or liability.

10. Release and Indemnity. Lessee hereby agrees to release the Lessor, its officers, agents, successors, and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments, or assessments that may be imposed or obtained by any person, agency, or governmental authority against the Lessee by reason of any hazardous substance that may be present by whatever means on, in or under the leased premises. The Lessee hereby agrees to indemnify, defend with counsel suitable to the Lessor, and hold harmless the Lessor from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the leased premises, the Lessor's ownership of the premises, or this lease, including the presence of any hazardous substance on the leased premises.

11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Lessee shall provide the Lessor with a Bond, or other security satisfactory to Lessor, in the amount of \$100,000.00 to assure removal of any hazardous substances, and the remediation and restoration of the leased premises during the term of, and at the conclusion of the lease so as to comply with the terms of this lease to the satisfaction of the Lessor, and in order to comply with environmental laws. Lessee shall provide written evidence that said Bond or security has been secured by the Lessee, which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.

12. Insurance. Effective at the commencement of this lease, Lessee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii, with limits of indemnity coverage no less than \$1,000,000. Said policy of insurance shall provide coverage for personal injury or damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Lessee. Said policy of insurance shall name the Lessor as an additional insured. Lessee shall provide proof of said insurance satisfactory to the Lessor which shall include, at a minimum, the coverage provided, and the term during which said policy shall be effective.

Excerpt from Standard Revocable Permit

Environmental Compliance - Permittee's Duties

26. SPECIAL TERMS AND CONDITIONS.

ENVIRONMENTAL COMPLIANCE – PERMITTEE’S DUTIES

A. Definitions.

For purposes of this Revocable Permit, Permittee agrees and understands that the following terms shall have the following meanings:

“Environmental Laws” shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

“Hazardous Substance” shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

B. Permittee’s Activities and Duties.

30 Compliance with Environmental Laws. Permittee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the premises during the term of this Revocable Permit, and Permittee’s occupancy of, and activities on, the premises. This duty shall survive the expiration or termination of this Revocable Permit which means that the Permittee’s duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Permittee on the premises after the expiration or termination of this Revocable Permit. Failure of the Permittee to comply with any environmental laws shall constitute a breach of this Revocable Permit for which the State shall be entitled, in its discretion, to terminate this Revocable Permit and take any other action at law or in equity it deems appropriate.

40 Hazardous Substances. Permittee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third

person, on the premises without first obtaining the written consent of the State and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this Revocable Permit.

3. Notice to the State. Permittee shall keep the State fully informed at all times regarding all Environmental law related matters affecting the Permittee or the premises. This duty shall include, without limit to the foregoing duty, providing the State with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the premises and with evidence that the Permittee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Permittee by any federal or state authority or individual which relates in any way to any environmental law or any hazardous substance and the Permittee or the premises. This written notice to the State shall include the Permittee immediately providing the State with copies of all written communications from individuals or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Permittee. At least thirty (30) days prior to termination of this Revocable Permit, or termination of the possession of the premises by Permittee, which ever shall first occur, Permittee shall provide the State with written evidence satisfactory to the State that Permittee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Permittee that relate to the premises.

4. Notice to Authorities. Permittee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty (60) days prior to the termination of this Revocable Permit, or sixty (60) days prior to Permittee's termination of possession of the premises, whichever occurs first, the fact that Permittee intends to vacate the premises and terminate its operations on those premises. Permittee shall allow the agents or representatives of said authorities access to the premises at any and all reasonable times for the purpose of inspecting the premises and taking samples of any material for inspection or testing for compliance with any environmental laws. Permittee shall provide copies of said written notices to the State at the time said notices are provided to said authorities.

70 Disposal/Removal. Except for materials that are lawfully sold in the ordinary course of the Permittee's business and for which the Permittee has obtained all required authorizations from appropriate authorities including the prior written permission of the State to have said substance on the premises, Permittee shall cause any hazardous substances to be removed from the premises for disposal. This duty shall include the transportation of said hazardous substance from the premises solely by duly licensed hazardous substance transporters to duly licensed facilities for final disposal as required by all applicable environmental laws. Permittee shall provide the State with copies of documentary proof, including manifests, receipts or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.

80 Environmental Investigations and Assessments. The Permittee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the premises to determine the presence of any hazardous substance on, in, or under the premises as may be directed from time to time by the State, in its sole discretion, or by any federal or state authority. The extent

and number of any environmental investigations and assessments shall be determined by the State or the federal or state authority directing said investigations and assessments to be conducted. Permittee shall retain a competent and qualified person or entity that is satisfactory to the State or governmental authority, as the case may be, to conduct said investigations and assessments. Permittee shall direct said person or entity to provide the State or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water or other material that may be obtained for testing and provide directly to the State and the governmental authority at the sole expense of the Permittee written results of all tests on said samples upon completion of said testing.

90 Remediation. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the premises, or to have migrated from the premises, Permittee shall, at its sole expense and cost, remediate the premises, or any location off the premises to which it is determined that the hazardous substance has migrated, of any hazardous substances. Said duty to remediate includes the removal and disposal of said hazardous substances in accordance with paragraph 5. This duty to remediate includes strictly complying with all environmental laws and directives to remediate said hazardous substance issued from the State or any federal or State governmental authority charged with enforcing the Environmental laws. This duty to remediate shall include replacement of any materials, such as soils, removed with material that is satisfactory to the State and governmental authority, as the case may be.

:0 Restoration and Surrender of Premises. The Permittee hereby agrees to restore the premises, at its sole cost and expense, including the soil, water and structures on, in, or under the premises, to the same condition as the premises existed at the commencement of this Revocable Permit, fair wear and tear to the structures excepted. In the event Permittee does not restore the premises to the same condition as it existed at the commencement of the Revocable Permit, as determined by the State, the Permittee understands and agrees that the State may exercise its rights under the paragraph entitled State's Right to Act, and until such time as the restoration is complete to the satisfaction of the State, Permittee shall be liable for Revocable Permit rent in the same manner and amount as if the Revocable Permit had continued in effect during the period of restoration.

;0 State's Right to Act. In the event the Permittee fails for any reason to comply with any of its duties under this Revocable Permit or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the State, the State shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Permittee hereby grants access to the premises at all reasonable hours to the State, its agents and anyone designated by the State in order to perform said acts and duties. Any cost, expense or liability of any type that may be incurred by the State in performing said acts or duties shall be the sole responsibility of the Permittee and Permittee hereby agrees to pay for those costs and expenses and indemnify the State for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of State's right to act, including litigation costs, attorneys fees and the costs and fees for collection of said cost, expense or liability.

10. Release and Indemnity. Permittee hereby agrees to release the State, its officers, agents, successors and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments or assessments that may be imposed or

obtained by any person, agency or governmental authority against the State and/or the Permittee by reason of any hazardous substance that may be present by whatever means on, in or under the premises. The Permittee hereby agrees to indemnify, defend with counsel suitable to the State, and hold harmless the State from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the premises, the State's ownership of the premises, or this Revocable Permit, including the presence of any hazardous substance on the premises. Permittee understands and agrees that any assessments, fines or penalties that may be assessed against the Permittee or the State by reason of any environmental law violation concerning the premises shall be paid, complied with, and in every way satisfied by the Permittee and not the State.

11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Permittee shall provide the State with a Bond, or other security satisfactory to State, in the amount of \$ N/A to assure removal of any hazardous substances and the remediation and restoration of the premises during the term of, and at the conclusion of the Revocable Permit so as to comply with the terms of this Revocable Permit to the satisfaction of the State and in order to comply with environmental laws. Permittee shall provide written evidence that said Bond or security has been secured by the Permittee which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.

340 Insurance. Effective at the commencement of this Revocable Permit, Permittee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii with limits of indemnity coverage no less than \$500,000.00. Said policy of insurance shall provide coverage for personal injury and damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Permittee or the State. Said policy of insurance shall name the State as an additional insured. Permittee shall provide proof of said insurance satisfactory to the State which shall include, at a minimum, the coverage provided and the term during which said policy shall be effective.

APPENDIX C
TENANT INVENTORY

2009 Tenant Inventory
Honolulu and Kalaeloa Harbors

Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
1726, INC. dba MARK GLEN AUCTIONS	4224 Waialae Avenue, Suite 334, Honolulu, HI 96816-5307		Mark Glen	(808) 223-4212	mark@markglenauctions.com	(808) 596-4664
AALA Produce, INC. dba AALA SHIP SERVICE	869 North Nimitz Highway, Honolulu, HI 96817-4517	Pier 32 (Near)	Rodney Tamamoto	(808) 576-0566	sales@aalaship.com	(808) 526-0102
AES KALAELOA VENTURE LLC	91-086 Kaomi Loop Kapolei, HI 96707		Robert Shampoe	(808) 682-4113	robert.shampoe@aes.com	(808) 682-5894
AIRCRAFT SERVICE INTERNATIONAL GROUP / HAWAII FUELING FACILITIES CORPORATION	3201 Aolele Street Honolulu, HI 96819	6 and 50 Sand Island Access Road Sand Island Fuel Storage	Ronald W. Barringer	(808) 833-3291 Ext. 24	ron.barringer@asig.com	(808) 833-3295
AKANA TRUCKING, INC.	209 Hao, Honolulu, HI 96821		Kevin M Akana	845-9825	akanatrucking@hawaiiantel.net	(808) 845-9342
ALOHA AGRICULTURAL CONSULTANTS, INC. dba NIU NURSERY	P.O. Box 17220 Honolulu, HI 96817	50B Sand Island Access Road	Sidney Goo	845-5991	sidgoo@msn.com	808-845-3721
ALOHA CARGO AGENCY, INC.	677 Ala Moana Blvd., Suite 917 Honolulu, HI 96813		Thomas Crescenzi	(808) 536-7033	tom@acthi.com	(808) 531-3004
ALOHA CONTAINER SALES & RENTAL, INC.	966 Robello Lane, Honolulu, HI 96817		Richard D. Preston II (Rick Preston)	(808) 843-8600	alohacontainersales.rental@hawaiiantel.net	(808) 843-1805
ALOHA LIQUEURS, INC	5 Sand Island Access Road, Box 118, Honolulu, HI 96819		Dave Fazendin	(808) 841-5787		(808) 847-2903
ALOHA PETROLEUM, LTD.	91-119 Hanua Street Kapolei, HI 96707		Richard Conner	808-673-4296	rconner@alohagas.com	808-673-2069
ALOHA TOOL & RENTAL, INC. dba Honolulu RECOVERY SYSTEMS CO.	207 Puuhale Road Honolulu, HI 96819		Craid Matsuo	(808) 841-3179		808-842-0979
ALOHA TOWER DEVELOPMENT CORPORATION	600 Fort Street, Honolulu, HI 96813		Sandra Pfund	808-586-2530	spfund@alohatower.org	808-586-3046
ALUMINIUM SHAKE ROOFING, INC.	5 Sand Island Access Road, Building 919-B, Honolulu, HI 96819		Fred Rehm	847-8885	fredrehm@hawaiiantel.net	(808) 847-8009
AMAZON CONSTRUCTION COMPANY, INC.	5 Sand Island Access Road, Box 139, Honolulu, HI 96819		Duston K. Onaga	(808) 841-6595	donaga@hawaiiantel.net	(808) 847-6846
AMAZON CONSTRUCTION COMPANY, INC.	5 Sand Island Access Road, Box 139, Honolulu, HI 96819		duston onaga	841-6595		
AMERICAN DIVERS, INC.	65 North Nimitz Highway, Pier 14, Honolulu, HI 96817	Pier 14	Roger Nall	808-545-5190 c: (808) 479-5195	rusty@amsghq.com	(808) 538-1703
AMERICAN GUARD SERVICES, INC.	677 ALA MOANA BLVD., SUITE 725 Honolulu, HI 96813		Carla O'Bannan	(310) 645-6200	carla@americanguardservices.com	(310) 645-6233
AMERICAN MARINE CORPORATION/AMERICAN WORKBOATS, INC.	65 North Nimitz Highway, Pier 14, Honolulu, HI 96817	Pier 14	Roger Nall	808-545-5190 c: (808) 479-5195	rusty@amsghq.com	(808) 538-1703
AMERON INTERNATIONAL CORPORATION dba AMERON HAWAII	P.O. Box 29968, Honolulu, HI 96820		Linda F. Goldstein	(808) 266-2672	lgoldstein@ameronhawaii.com	(808) 266-2669
ANCHOR CONSTRUCTION MANAGEMENT CORP.	P.O. BOX 359 HAUULA, HAWAII 96717		David B. Thielem	(808) 306-0826	davidt@pixi.com	(808) 842-0579
ANUENUE REFUSE, INC.	P.O. Box 29114, Honolulu, HI 96822		Naomi T. Arakaki	(808) 845-4235	anuenueinc.@hawaiirr.com	(808) 848-0904

2009 Tenant Inventory
Honolulu and Kalaeloa Harbors

Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
ARA CONTRACTING	1433 Kewalo Street #304, Honolulu, HI 96822		Kenneth Park	(808) 387-6108	aracon3@yahoo.com	(866) 401-9114
ARITA/POULSON GENERAL CONTRACTING	P.O. Box 1035 Puunene, HI 96784		Steve Jorgensen	(808) 368-4764	Steve@aritapoulson.com	(808) 871-6756
ATLANTIS CRUISES / ATLANTIS SUBMARINE HAWAII	1600 Kapiolani Blvd, Suite 1630, Honolulu, HI 96814		Jon Chapman	808-832-6603	jchpman@atlantisadventures.com	808-832-6601
ATLANTIS SUBMARINES HAWAII	1600 KAPIOLANI BOULEVARD, SUITE 1630 Honolulu, HI 96814		Jon Chapman	(808) 832-6601	jchapman@atlantisadventures.com	(808) 832-6601
BCP CONSTRUCTION COMPANY OF HAWAII, INC.	5 Sand Island Access Road, Box 112, Honolulu, HI 96819		Timothy S. Burke	808-841-4574 x11	tburke@bcpcconstruction.com	(808) 841-1645
BERING SEA ECCOTECH, INC.	91-343 Kaiholo Street Kapolei, HI 96707		James Directo (Operations Manager)	808-330-8991	jamesdirecto@bseak.com	(808) 682-1701
BROOKINS BOATWORKS, LTD.	5 Sand Island Access Road, Unit 117, Honolulu, HI 96819		Gary Brookins	841-2525	brookins.boats@hawaiiantel.net	(808) 841-2525
BURLINGTON ENVIRONMENTAL, INC. c/o PSC INDUSTRIAL OUTSOURCING, INC.	91-127 Malakole Street, Kapolei, HI 96707		Otto Audirsch	808-845-0032	oudirsch@pscnow.com	808-845-0103
CAN-AM COATING, INC.	98-1329 Akaaka Street, Aiea, HI 96701		Perry Radtke	(808) 429-9494	canam@hawaii.rr.com	(808) 484-9292
CB TECH SERVICES	Sand Island Access Road, Box 102 Honolulu, HI 96819		fay	848-0060		
CENTRAL PACIFIC DISTRIBUTING, INC.	5 Sand Island Access Road, Box 127, Honolulu, HI 96819		Brian Oda	(808) 848-0787	cpd.hi@hawaiiantel.net	(808) 848-0789
CERTIFIED SHEETMETAL	1544 Mahiole Street, Honolulu, HI 96819		Michael Yamauchi	(808) 372-3918	mmmy@hawaii.rr.com	(808) 842-1747
CHASE SALES & DISTRIBUTION, INC.	5 Sand Island Access Road, Box 147, Honolulu, HI 96819		Hank Hatakenaka	(808) 842-4588	hank.cs@hula.net	(808) 848-8757
CHEVRON U.S.A., INC. Honolulu Transportation terminal	933 North Nimitz Highway Honolulu, HI 96817		Dennis Morgan	527-2755/ 91-480 Malakole	dek@chevron.com	(808) 545-1649
CHEVRON U.S.A., INC. Honolulu Marine Terminal	777 North Nimitz Highway Honolulu, HI 96817		Dennis Morgan	(808) 527-2755/ 91-480 Malakole	dek@chevron.com	(808) 545-1049
City & County of Honolulu, DEPT. OF ENVIRONMENTAL SERVICES	1000 Uloohia Street, suite 308 Kapolei, HI 96707		Allen Young	(808) 223-9613	ayoung@honolulu.gov	(808) 848-6532
City & County of Honolulu, Honolulu FIRE DEPARTMENT (PIER 15)	111 North Nimitz Highway, Pier 15 Honolulu, HI 96817	Pier 15	Captain Lance Orillo or Mr. Mark Saizon	808-523-4957	msaizon@honolulu.gov	808-524-9032
City and County of Honolulu HNL Police Dept. Attn: Juvenile Services, P.A.L.	801 South Beretania St. Honolulu, HI 96813		Lieutenant J. Averell Peddro	(808) 529-3881 (808) 228-5295	jpedro@honolulu.gov	(808) 529-3960
City and County of Honolulu, dept. of Transportation Services	650 S. king Street, 3rd Floor Honolulu, HI 96813		Darin Mar	808-768-8353	dmar@honolulu.gov	808-768-6987
CLASSIC TILE CORPORATION	P.O. Box 30568, Honolulu, HI 96820		Richard Racoma	841-6893 5 Sand Island Access Road Unit 107	Kamalu1@msn.com	(808) 841-8332
CLEAN ISLANDS COUNCIL	179 Sand Island Access Road, Honolulu, HI 96819	Pier 35; Piers 5 & 6	Kim Beasley	(808) 845-8465	kimb@cleanislands.org	(808) 845-8457

2009 Tenant Inventory
Honolulu and Kalaeloa Harbors

Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
CONCRETE CORING CO. OC HAWAII, INC.	99-1026 IWAENA STREET Aiea, HI 96701	HNL and KMR Tenanat	Nathan Sabey	(808) 330-7516	Nsabey@penhall.com	(808) 487-6679
CONCRETE CORING COMPANY OF HAWAII, INC.	99-1026 Iwaena Street, Aiea, HI 96701	HNL & KMR Tenant	John Neff / Nathan Sabey	(808) 488-8222 (808) 330-7516	jneff@concretecoringhawaii.com or nates@concretecoringhawaii.com	(808) 487-6679
CONTAINER STORAGE COMPANY OF HAWAII	2276 Pahounui Drive, Honolulu, HI 96819		Frank White	841-5555 2276 Pahounui Drive	fpwhite@aloha.com	(808) 845-5552
CONTROL TECH, LLC	P.O. Box 30992, Honolulu, HI 96820		Melvin Tsue	(808) 847-7490	ctechllc@hawaiiantel.net	(808) 853-2461
CONVENTION SET BUILDERS, INC.	1040 13th Avenue, Honolulu, HI 96816-3638	Building 925 Kapalama	Eric Van der Voert	808-216-1507	csbinc@hawaii-rr.com	(808) 732-3215
CUSTOM BILT METALS	5 sand island access road. Building 928 Honolulu, HI 96819		Thomas Frame	808-845-1806	tom.frame@custombiltmetals.com	808-845-2702
D & K PETROLEUM, INC.	P.O. BOX 5499 Kaneohe, HI 96744					
DAVENPORT HAWAII PARTNERS, LP	1400 QUAIL ST., STE. 195 Newport Beach, CA 92660-2769	887 N Nimitz Highway Honolulu, HI 96817	Angela Brand	949.640.5100	abrand@davenportpartners.com	949.640.5141
DD-M LEASING, INC.	65 North Nimitz Highway, Pier 14, Honolulu, HI 96817	Pier 14	Tiare Ohelo	(808) 791-0067 (office) (808) 772-0124 (Cell)	theohelos@gmail.com	(808) 944-4835
DEDRICK, DEWAIN A.	701 North Nimitz Highway, Honolulu, HI 96817		Dewain Andrew Dedrick	(808) 587-7779	andrew@bellapietra.com	(888) 251-4569
DEPENDABLE HAWAIIAN EXPRESS, INC.	703 North Nimitz Highway, Honolulu, HI 96817		Ron Richardson	(808) 841-7311 x1701	r-richardson@dhx.com	(808) 791-2785
DIVISION 8, INC.	5 Sand Island Access Road, Box 126, Honolulu, HI 96819		Brad Granger	808-845-8999	division8@808glass.com	808-843-0584
DONAHUE, SHANNON dba PARADISE EQUIPMENT	P.O. Box 356, Kihei, HI 96753		Shannon Donahue	808-330-1370	shandon@aloha.net	
DON'S MAKIKI	1406 South Beretania Street, Honolulu, HI 96814		Nora Gau (Leonora)	(808) 949-3787	donsmakiki@yahoo.com	(808) 944-1049
DRAFTSTONE COMPANY, INC.	P.O. Box 161117 Honolulu, HI 96816		Waldemar Rojek	808-737-4696	draftstone@gmail.com	808-737-4694
EARTH TECH, INC.	841 Bishop Street, Suite 500 Honolulu, HI 96813		Leslie Field/ Paul Chinen	(808) 523-8834	leslie.field@earthtech.com	(808) 523-8950
EAST WEST MARKETING, INC.	95-1101 Wikao Street, Mililani, HI 96789		Melody G. Calisay	(808) 224-9535	mcalisay@aol.com	808-848-8278
ED YAMASHIRO, INC.	45-552 Kamehameha Highway, Kaneohe, HI 96744-1944		Aaron Yamashiro	(808) 247-6628 808-228-2189	eky2.inc@hawaiiantel.net	(808) 247-7870
EKNA Services	615 Piikoi Street Suite 300 Honolulu, HI 96814			591-8553		
EQUILON ENTERPRISES, LLC/Shell Oil Products US Honolulu Terminal	789 N. Nimitz Hwy Honolulu, HI 96817		Dwight Amemiya	808-537-3911	Dwight.amemiya@shell.com	808-538-1075
ERIK BUILDERS, INC.	50-CC Sand Island Access Road, Honolulu, HI 96819		Jimmy Sakata	845-7736/ 808-224-1033	ebihi@hawaiiantel.net	808-841-0591

2009 Tenant Inventory
Honolulu and Kalaeloa Harbors

Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
FIVE "C" CORP dba WESTERN OVERHEAD DOORS	80 Sand Island Access Road, #226, Honolulu, HI 96819	80 Sand Island Access Road Bay 226	Eric Carlborn	832-0555	ericc@lava.net	808-848-1694
FIVE STAR ROOFING, LLC	5 Sand Island Access Road, Box 165, Honolulu, HI 96819		William Hale	(808) 845-4588	admin@5starroofing.net	(808) 848-7869
FRANK P. WHITE JR. PROPERTIES dba CONTAINER STORAGE CO.	2276 Pahounui Drive, Honolulu, HI 96819		Frank White	(808) 841-5555	fpwhite@aloha.com	(808) 845-5552
Fresh Island Fish, LLC	1135 North Nimitz Highway Honolulu, HI 96817		Derek Higa	808-831-4911	derek@freshislandfish.com	808-836-8762
FRIENDS OF FALLS OF CLYDE	P.O. BOX 25008 Honolulu, HI 96825					
FRIENDS OF HOKULE'A & HAWAIILOA	P.O. Box 696, Kailua, HI 96734	Pier 62	Jay Dowsett	261-1841 256-1841	dowsettj001@hawaii.rr.com	
FUELMAN, INC.	P.O. Box 29249, Honolulu, HI 96820		Michael P. Rossman	(808) 842-3835	fuelman.hawaii@hawaiiantel.net	(808) 842-0316
FUKUNAGA, PAUL N. dba P.F. MARINE	1391 Haloa Drive Honolulu, HI 96818		Paul N Fukunaga	842-1330		(808) 845-8255
G.W. KILLEBREW CO., INC.	2276 Pohonui Drive, Honolulu, HI 96819		shannon Iono	(808) 841-5819	david.medieris@gwkillebrew.com	(808) 842-058
GILLIS, EUGENE dba EXCAVATION SERVICES	5928 Kalaniana'ole Highway, Honolulu, HI 96821		Eugene Gillis	808-383-1959	kgillis@hawaii.rr.com	808-395-1959
GLOBAL SPECIALITY CONTRACTORS, INC.	5 Sand Island Access Road, Box 159, Honolulu, HI 96819		Marvin G. Krael	(808) 843-8881 (808) 843-8882	globalspecialty@hawaiiantel.net	(808) 843-8883
GLP ASPHALT, LLC	94 KAMOKILA BLVD., STE 100 Kapolei, HI 96707					
GMB VINYL, INC. dba GMB VINYL FENCING	5 Sand Island Access Road, Box 151, Honolulu, HI 96819		Javene K. Cabebe Galavio	842-5545	gmbvinylinc@aol.com	(808) 842-5134
GREAT PACIFIC WHOLESALE CO., LLC	P.O. Box 31062, Honolulu, HI 96820		Todd Patterson	(808) 395-8048	gpwc@att.net	(808) 395-8041
HAJALEE INC, dba KALIHI QUEEN'S SUPERMARKET	1010 Kaili Street Honolulu, HI 96819		Jason Yang, Kevin Lee	(808) 841-8699		(808) 841-2599
HARDY CONSTRUCTION CO., INC.	2410 A Makiki Heights Drive, Honolulu, HI 96822		Melvin R. Hardy	(808) 845-0267		(808) 845-0269
HAWAII EXPLOSIVES & PYROTECHNICS, INC.	P.O. Box 1244, Keaau, HI 96749		Donald Pascual	808-968-0600	hepinc@hipyro.com	808-968-0800
HAWAII MARITIME CENTER	1525 Bernice Street Honolulu, HI 96817	Pier 7 Honolulu Harbor	Karla Vasey	(808) 599-3810	karla@bishopmuseum.org	(808) 536-1519
HAWAII PACIFIC PLUMBING SUPPLY	1930 B Auiki Street, Honolulu, HI 96819		Mike Savalinaea	808-842-5600	mike@hppshawaii.com	808-842-5900
HAWAII PAINTING & WALLCOVERING	P.O. Box 17038, Honolulu, HI 96817-0038		Dean & Brian Negatoshi	(808) 479-6825 (808) 479-6501	HPW-Consulting@hawaii.rr.com	(808) 247-2676
HAWAII STEVEDORES, INC.	P.O. Box 2160, Honolulu, HI 96805-2160		Jeff Brennan	527-3414	jbrennan@hawaiistevedores.com	(808) 527-3448

2009 Tenant Inventory
Honolulu and Kalaeloa Harbors

Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
HAWAII SUPERFERRY	1 Waterfront, Suite 300 Honolulu, HI 96813	Pier 19	John Keever	808-853-4134	john.keever@hawaiisuperferry.com	808-531-7410
HAWAII TOYS & GIFTS	1547 Kokea Street, Honolulu, HI 96817		danny ung	292-2023		841-7112
HAWAII TRANSFER COMPANY, LTD.	P.O. Box 665, Pearl City, HI 96782		Joseph Aguon	677-3111 x134	josephaguon@hawaiitransfer.biz	441-7179
HAWAIIAN AQUA PRODUCTS	1130 Wilder Avenue, Suite 102, Honolulu, HI 96822		Evelyn Lim	(808) 521-5468	evylim2@aol.com	(808) 521-5477
HAWAIIAN CEMENT	99-1300 Halawa Valley Road, Aiea, HI 96701		Dane Wurlitzer	532-3407	dane.wurliter@hawaiiancement.com	(808) 441-7696
HEALY TIBBITTS BUILDERS, INC.	99-994 Iwaena Street, Suite A, Aiea, HI 96701	Kalaeloa; Pier 42	Glen Toyama	(808) 487-3664 (808) 682-6104	gtoyama@hawaii.rr.com	(808) 682-3736; (808) 487-3660
HEUMANN, JAMES dba WIND & SEA CHARTERS	P.O. Box 8672, Honolulu, HI 96830		Jim Heumann	(808) 220-2675	jmh@lava.net	(808) 732-6454
HIROSE ELECTRIC	P.O. Box 30448, Honolulu, HI 96820		Scott Hirose	(808) 848-8830	hiroseelectric@aol.com	(808) 845-6511
HI-TEC ROOFING, INC.	5 Sand Island Access Road, Box 157, Honolulu, HI 96819		Cynthia Jeffers	(808) 841-7663	aahitec@pixi.com	(808) 841-5274
Honolulu AGENCY, INC. & OCEANIC GLOBAL TRADING	P.O. Box 4165, Honolulu, HI 96812-4165	Pier 32	Steven Yoshizawa	808-454-1255	steveny@hawaiiantel.net	(808) 454-1256
HONOLULU COMMUNITY ACTION PROGRAM, INC. aka OAHU HEAD START	33 South King Street, Suite 300 Honolulu, HI 96813		John Park (Facilities Manager)	(808) 843-4333 (808) 277-3716	johnp@hcapweb.org	(808) 847-2302
HONOLULU MARATHON ASSOCIATION	1635 Citron Lane Honolulu, HI 96826		Ronald Chun	808-946-0539 808-255-2602	jchun@honolulumarathon.org	808-941-1380
HONOLULU RECOVERY, INC.	1391 MIKOLE STREET Honolulu, HI 96818					
HOOK UP TOWING, INC.	1843 Liliha Street, Apt. B, Honolulu, HI 96817-2368		mary jo rivera	486-4665	hookuptowing@aol.com	808-533-4665
HORIZON LINES, LLC	1601 Sand Island Parkway Honolulu, HI 96819		Frank Roznerski	808-842-5389	froznerski@horizonlines.com	808-842-5394
HPBS, INC.	P.O. Box 721, Honolulu, HI 96808	Pier 19	Fay Leong	532-7233	officeadmin@hawaiipilots.net	(808) 532-7229
HPC FOODS, LTD.	288 Libby Street, Honolulu, HI 96819		Bernie Bernales	848-2431 ext. 208	bernie@hpcfoods.com	(808) 845-5155
IAN J. LANSDOWN, dba HAWAII'S SAILING CENTER	665 IANA Street, Kailua, HI 96734					
IMPERIUM RENEWABLE HAWAII LLC	P.O. Box 3767 Honolulu, HI 96812		Adrienne Barnes	808-532-9702	adrienne.barnes@imperiumrenewables.com	808-356-0697
INCHCAPE SHIPPING SERVICES	521 ALA MOANA BLVD., STE. 256 Honolulu, HI 96813					
INDUSTRIAL CHEMICAL & LUBRICANTS, INC.	P.O. Box 30173, Honolulu, HI 96820		Patricia Shinsato	(808) 842-4116	icl@clearwire.net	(808) 841-8400

2009 Tenant Inventory
Honolulu and Kalaeloa Harbors

Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
INTERNATIONAL EXPRESS, INC.	P.O. Box 797, Honolulu, HI 96808		David Hinchey	(808) 841-6005	davidh@interexp.com	(808) 841-2083
ISHIKAWA, NORMAN & DOLORES dba NORMAN'S TRACTOR SERVICE	P.O. Box 2280, Ewa Beach, HI 96706		Theresa L. Alcosiba	(808) 778-0344	nts96819@hotmail.com	
ISLAND MOVERS	P.O. Box 17865, Honolulu, HI 96817	Pier 42	Ryan K. Fukunaga	(808) 832-4813	ryanf@hawktree.net	(808) 832-2701
ISLANDS BEACH ACTIVITIES	P.O. Box 8181 Honolulu, HI 96830		Herbert Bessa	808-946-7490		808-955-0818
JAPAN FOOD (HAWAII), INC.	P.O. Box 4404, Honolulu, HI 96812	Pier 34	Toshiaki Wada	(808) 537-9528		(808) 536-0389
JAS. W. GLOVER, LTD	P.O. Box 579 Honolulu, HI 96809		John Romanowski	(808) 591-8977 (808) 864-0368	johnr@gloverltd.com	(808) 591-8978
JET PRO, INC.	486 Cabot Road, San Francisco, CA 94080		Margaret Guerrero, Executive Administrator	845-8826	margarita@jetproinc.com	(808) 845-8786 650-794-0159
JOSLIN SERVICE CORPORATION	349 Hanakai Street, Kahului, HI 96732		Don D. Freeman	526-1790	info@joslinservice.com	808-871-4348
KAGAMI, INC.	P.O. Box 745, Aiea, HI 96701	Piers 18-38	Wayne M. Kagami	(808) 523-5700	peeks2096@aol.com	(808) 523-5757
KAPALAMA FEDERAL CREDIT UNION	P.O. Box 1149, Honolulu, HI 96807		Marian M. Kiyuna	845-9069	kapalama@fcu-hawaii.com	(808) 845-9069
KEALOHALANIEQUIPMENT & RENTAL, INC.	47-497 HUI AEKO PLACE Kaneohe, HI 96744					
KERR PACIFIC CORP, dba HFM Foodservice	P.O. Box 855, Honolulu, HI 96808			843-3217		
KIRKWOOD CLARKE dba HAWAIIAN CATAMARAN MULTIHULL DESIGN	50-C Sand Island Access Road, Honolulu, HI 96819		Matt Buckman	(808) 306-6012		(808) 841-8063
KNIGHT UNLIMITED, dba KNIGHT TRANSPORT	99-818 MEAALA STREET Aiea, HI 96701					
KO OLINA MARINA, LLC.	92-1480 Aliiuni Drive, Kapolei, HI 96707		Russell "RD" Doane	(808) 679-1050 or 671-2512	rd@koolina.com	(808) 679-1055
KONG ENTERPRISES, INC.	P.O. BOX 5187 Kaneohe, HI 96744		Richard Kong	(808) 478-3582	rkingkong@aol.com	(808) 239-0077
K-Sea Transportation, Hawaii Division (formerly UAUKEWAI DIVING, SALVAGE & FISHING, INC.)	Pier 21, Honolulu, HI 96817	Pier 21	Bill Boland	522-1000 780-2278	wboland@K-Sea.com	(808) 522-1011
KUMU CORP.	50 K Sand Island Access Road, Honolulu, HI 96819		Dan Kahler	(808) 848-2026 808-223-2577		808-847-0586
MARINE PETROLEUM CORPORATION	P.O. Box 29249, Honolulu, HI 96820		Michael P. Rossman	(808) 842-3538	marine.fuel@hawaiiantel.net	(808) 842-0316
MARINE SPILL RESPONSE CORPORATION	179 Sand Island Access Road, Honolulu, HI 96819	Pier 35 & 36	Stuart Larson	425-304-1547	larson@msrc.org	425-339-1229
MARISCO, LTD.	91-607 Malakole Road, Kapolei, HI 96707	steve hinton	neil	808-564-0730	bmccaffery@marisco.net	808-682-5848

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Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
MARITIME LICENSE CENTER	1311 Kapiolani Blvd, Suite 407, Honolulu, HI 96814		Charles Howard	589-0123	trng@marictr.com	(808) 591-6276
MASUDA, RICHARD dba RICHARD K. MASUDA MASONRY	833 Ekoa Place, Honolulu, HI 96821					
MATSON NAVIGATION COMPANY, INC. / MATSON TERMINALS, INC.	P.O. Box 899, P.O. Box 2630, Honolulu, HI 96821	Pier 51	Keahi Birch	848-1321	kbirch@matson.com	(808) 845-3892
MAUGA-OLIVE SAMOAN ASSEMBLY OF GOD	P.O. Box 4114 Honolulu, HI 96813		Setu Tiafane	(808) 778-0127 (808) 448-4434	setu.tiafane@hickam.af.mil	(808) 448-2654
MC & A, INC.	615 Piikoi Street, Suite 1000, Honolulu, HI 96814		Martin Fayardo	808-589-5500	marty_fayardo@mc-hawaii.com	(808) 589-5501
McCABE, HAMILTON & RENNY	P.O. Box 210, Honolulu, HI 96810		Andrew Souza	808-479-0356	andrewsouza16@msn.com	808-538-6486
MID PAC PETROLEUM LLC	677 ALA MOANA BLVD., SUITE 625 Honolulu, HI 96813					
MILITARY HQ	P.O. Box 30647, Honolulu, HI 96820-0647		Sandii Kamaunu	843-0189	milhq@aloha.com	(808) 843-0295
MILLER INDUSTRIES	5 Sand Island Access Road, Box 105, Honolulu, HI 96819		Bill Miller	848-0855	millerindustries@cs.com	(808) 841-0262
MILLER/WATTS CONSTRUCTORS, INC.	737 Bishop Street, Suite 2900 Honolulu, HI 96813		Vincent E. Fragomene	808-543-5201	vince.fragomene@watts-con.com	808-543-5208
MLC INT'L LLC, dba PERFORMANCE LANDSCAPE	P.O. Box 10459 Honolulu, HI 96816		Matty Lyum	808-282-5496	performanceLS@hotmail.com	(808) 848-0828
MOANA PA'A KAI, INC. (Subsidiary of Young Brothers)	P.O. Box 3288, Honolulu, HI 96801	Pier 21	Nathan Kapule	(808) 543-9398	nkapule@htbyb.com	(808) 543-9458
MURAO, JOY P., dba RJ LUNCHWAGON	1410 Noelani Street Pearl City, HI 96782		Joy Murano	808-485-2233 808-271-8917	joymurano@aol.com	
MYSUNG SOO HAN dba HAN'S ELECTRIC	1617 Keeaumoku Street, #501, Honolulu, HI 96822		Myun Soo Han	808-841-6688		808-841-1088
NAKAMURA, RODNEY S. WELDING	2433 Rooke Avenue, Honolulu, HI 96817		Rodney S. Nakamura	(808) 228-2551		
NANAKULI NEIGHBORHOOD HOUSING SERVICES	P.O. Box 17489, Honolulu, HI 96817-0489		Paige Kapiolani Barber	(808) 842-0770	alohakap@gmail.com	(808) 842-0780
NCL AMERICA, INC. (1 ship in service- Pride of America)	745 Fort Street, Suite 1600 Honolulu, HI 96813		Grant Karamatsu	808-527-3857	gkaramatsu@ncl.com	(808) 527-3820
NEWPORT PACIFIC CABINETS, INC.	206-C Mokauea Street, Honolulu, HI 96819		Stanley Yuen	(808) 486-6008	npcabinets@aol.com	(808) 841-6668
NORKO MARINE AGENCY, INC.	791 North Nimitz Highway, Honolulu, HI 96817	Pier 33	Norman Cheu	(808) 536-4568	ncheu@norkomarine.com	(808) 536-4866
OCEANTRONICS, INC.	711 North Nimitz Highway, Honolulu, HI 96817	Pier 24	Olinda D. Amtsberg	(808) 522-5600	amtsberg@msn.com	(808) 522-5222
OHAI, LEO A.	P.O. Box 28002, Honolulu, HI 96820		Nephi Ohai	(808) 531-2524	nephi@laua.net	(808) 550-8381

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Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
P & R WATER TAXI, LTD.	P.O. Box 2851, Honolulu, HI 96803	Pier 36	Sandra C. Pires	808-599-3809	s.pires@pnrwater taxi.com	808-521-2456
PACIFIC COMMERCIAL SERVICES, LLC	5 Sand Island Access Road, B931 Unit 115 Honolulu, HI 96819		Jingho Chung	808-545-4599	jingbo.chang@pcshi.com	808-845-9773
PACIFIC COMMERCIAL SERVICES, LLC	P.O. Box 235117, Honolulu, HI 96813		Jingo Chang	(808) 545-4599	jingbochang@aol.com	(808) 845-9773
PACIFIC DIVERS EQUIPMENT SUPPLY, INC.	5 SAND ISLAND ACCESS ROAD, BOX 140 Honolulu, HI 96819					
PACIFIC ENVIRONMENTAL CORPORATION	65 North Nimitz Highway, Pier 14, Honolulu, HI 96817	Pier 14	Teal Cross / Jeremy Sirkin	(808) 545-5195	jeremy@penco.org teal@penco.org	(808) 524-2307
PACIFIC FISHING AND SUPPLY, INC. (Same as Petro Pacific)	P.O. Box 27378, Honolulu, HI 96827	867A N Nimitz Highway	Roger Dang	533-1195	pacificfishing@gmail.com	(808) 533-2141
PACIFIC OCEAN PRODUCERS, INC.	1133 North Nimitz Highway, Honolulu, HI 96817	1133 N Nimitz Highway	Arlen Walsten	537-2905 x105	arlen@pop-hawaii.com	(808) 536-3225
PACIFIC RIM TRADING GROUP, LTD.	5 Sand Island Access Road, Box 140 Honolulu, HI 96819		Thomas Coyne	(808) 847-4455	tom@blue-fin.com	(808) 847-4433
PACIFIC SHIPYARDS INTERNATIONAL, LLC (PREVIOUSLY HONOLULU SHIPYARD, INC.)	P.O. Box 30989, Honolulu, HI 96820		Michael Ebbert/ Environmental Manager	(808) 848-6211	mebbert@pacificshipyards.com	(808) 848-6279
PANG, SANDRA dba SP LUNCH WAGON	139 Mokauea Street, Honolulu, HI 96819		Sandra Pang	(808) 848-0040 (808) 778-4686		
PARADISE CRUISE, LTD.	1540 South King Street, Honolulu, HI 96826		Captain Rich Davison	808-983-7765	RHardtDavison@aol.com	808-983-7782
PARADISE CRUISE, LTD.	5 Sand Island Access Road, Box 121, Honolulu, HI 96819		Marc Rubenstein	(808) 832-6261	mrubenstein@royalstarhawaii.com	(808) 832-6260
PBC WHOLESALERS, INC.	5 Sand Island Access Road, Box 116, Honolulu, HI 96819		Alan Nozawa	(808) 842-6565	pbchawaii@aol.com	(808) 842-6466
PENDLETON FLOUR MILLS, LLC dba HAWAIIAN FLOUR MILLS	P.O. Box 1238, Honolulu, HI 96807-1238		Tim Byam	(808) 527-3272	tbyam@pfmills.com	(808) 522-5554
PETROSPECT, INC.	499 North Nimitz Highway Honolulu, HI 96817	Pier 21	David Harrington	(808) 536-6626	dharrington@petrospect.net	(808) 531-1359
PIONEER MACHINERY, INC.	P.O. Box 22265, Honolulu, HI 96823-2265		Rodney Yee	(808) 371-4892	allstaryee@yahoo.com	(808) 833-5614
PRIME BUILDERS	411 Hobron Lane, #912, Honolulu, HI 96815		Damian Ronceovich	(808) 371-5086	primebuild@aol.com	(808) 942-8110
PROJECTS ENTERPRISES, INC.	5 Sand Island Access Road, Box 150, Honolulu, HI 96819		Todd Lawi	(808) 848-1900	tlawi@projects808.com	(808) 848-1960
PROTECH ROOFING, LLC	P.O. Box 31226, Honolulu, HI 96820		Charles E. Spigel	808-845-1300	chassp@aol.com	808-845-1300
PRYNE, TY dba H.B.N.	742 Queen Street, Suite 301, Honolulu, HI 96813		Ty Pryne	(808) 597-8120	tyhbn@concentric.net	(808) 593-8199
QUICK MOVE, INC.	155 Sand Island Access Road Honolulu, HI 96819		Eugene Fontanilla	808-486-7223	quickmove1@hotmail.com	808-422-9998

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Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
R.C. INTERNATIONAL, INC.	P.O. Box 22276, Honolulu, HI 96823		Calvin Wong/ Wai Phan Chan	(808) 223-2828 (808) 383-8339	RC1168@hotmail.com	(808) 941-9169
RDH TRANSPORTATION & LEASING	5 Sand Island Access Road, Box 121, Honolulu, HI 96819		Marc Rubenstein	808-832-6261	mrubenstein@royalstarhawaii.com	808-832-6260
REBECCA'S FINE COLLECTION dba R.F.C. GROUP	1585 Kapiolani Blvd., #812 Honolulu, HI 96814					
REEF DEVELOPMENT OF HAWAII, INC.	P.O. Box 1055 Aiea, HI 96701		Frank A. Machado	808-488-1228 x114	freank@reefdevelopment.com	(808) 487-9196
ROBERT MARCOS, INC.	5 Sand Island Access Road, Box 143, Honolulu, HI 96819		Deborah Marcos	(808) 841-1123	rmiinc@msn.com	(808) 841-0765
ROBERTO'S, INC.	5 Sand Island Access Road, Box 145, Honolulu, HI 96819		Mr. Peter Siu	808-845-6634	robertosinc@hotmail.com	(808) 842-6143
RON'S CONCRETE SPECIALISTS, LTD.	P.O. Box 17370 Honolulu, HI 96817		James A. Mainaupo	845-0467	ronsconcretespecialist@yahoo.com	845-0573
RSI ROOFING AND BUILDING SUPPLY	1081 Makepono Street, Honolulu, HI 96819		Ritchie Mudd	(808) 255-9995	rsiritchiemudd@aol.com	(808) 848-8221
SAITO, LINCOLN TIMOTHY dba KOKUA RECYCLE	1058 12th Avenue, Unit B Honolulu, HI 96816		Timothy Saito	808-284-0420	TimothySaito@yahoo.com	
SALASSA, FRED	1845 Auiiki Street, Honolulu, HI 96819		Fred Salassa	(808) 842-9133 ext 102	fred@FFHawaii.com	808-842-1184
SAUSE BROS., INC.	705 North Nimitz Highway, Honolulu, HI 96817	Pier 27 since 01; Pier 24 since 04	Wayne Stachel	(808) 306-2177	Waynes@sause.com	(808) 533-4109
SCHOFIELD FEDERAL CREDIT UNION	P.O. Box 860669, Wahiawa, HI 96786		Larry Chun	(808) 624-9884 (808) 845-9070	main@schofieldfcu.org	(808) 624-7774
SEA ENGINEERING, INC.	Pier 21, Honolulu, HI 96817	Pier 21, 19, 35, 32	W. Patrick Ross	(808) 536-3603	pross@seaengineering.com	(808) 536-3703
SERVCO PACIFIC, INC.	PO Box 2788 96803-2788		Evie Kobayashi	(808) 564-1327		(808) 533-1369
SHIN WOO CORPORATION	P.O. Box 30054, Honolulu, HI 96820		David Chang	(808) 853-1122	todayidchang@yahoo.com	(808) 441-9994
SIU, WAI LUN	2336A Kahauiki Street, Honolulu, HI 96819		Raymond Siu	808-256-2907	siucancook@aol.com	
SOUTHERN FOODS GROUP dba MEADOW GOLD	925 Cedar Street, Honolulu, HI 96814		Jason Fujimoto	(808) 949-6161 (808) 944-5978	jayson_fujimoto@deanfoods.com	(808) 944-5901
STATE OF HAWAII, DOAG/CRIMINAL JUSTICE	425 Queen Street, Honolulu, HI 96813		Kern Nishioka	(808) 586-1383	kern.k.nishioka@hawaii.gov	(808) 586-0932
STEINKE BROTHERS, INC.	98-889 Kaahele Street, Aiea, HI 96701		Robert Steinke	(808) 488-9668 808-478-9777		(808) 486-9458
SUBMARINES HAWAII, L.P. (Subsidiary of Robert's Hawaii)	680 Iwilei Road, Suite 700, Honolulu, HI 96817	Pier 41	Laki Sagiao	(808) 831-1564	laki.sagiao@robertshawaii.com	(808) 522-7866
SUEMATSU, NORA dba UNITED EQUIPMENT	P.O. Box 29208, Honolulu, HI 96820		Gary Supoaby	(808) 847-3344		

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Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
SUN CHONG COMPANY, LTD.	5 Sand Island Access Road, Box 148, Honolulu, HI 96819		Kevin Lam	(808) 381-2495 (808) 383-1756		(808) 841-6777
TAI POLYTHENE OF HAWAII, INC.	60 Laimi Road, Honolulu, HI 96817		Tai Lee	(808) 848-5591 (808) 371-6617		(808) 848-0009
TBC, LLC	1172 Lunaai street Kailua, HI 96734		patrick Casey	292-7468	pcasey@hawaii.rr.com	
TESORO HAWAII CORPORATION- SAND ISLAND TERMINAL	431 Kuwili Street, Honolulu, HI 96817		Wade K. Nakashima	(808) 547-3830	wnakashima@tsocorp.com	(866) 873-3451
THE CUSTOM CO., INC	205 Kalihi Street, Honolulu, HI 96819		Milton Ebesn	(808) 845-8811	milton@thesustomcompanyhawaii.com	(808) 845-8811
THE GAS COMPANY, LLC	P.O. Box 3000, Honolulu, HI 96802-3000	Pier 38	Kevin Nishimura	(808) 594-5573	knishimu@hawaiiigas.com	(808) 594-5610
THE PASHA GROUP, dba PASHA HAWAII	677 Ala Moana Blvd., Suite 700 Honolulu, HI 96813		Darren Lee	(808) 590-3617	Darren.Lee@Pashanet.com	(808) 550-0023
THE PHOENICIAN, LLC	91-573 Malakole Road Kapolei, HI 96707		John Gomersall	(808) 478-8031	the.phoenician@thephoenician.net	808-682-1983
THE SUSSEX CO., INC.	2270 Makiki Heights Drive, Honolulu, HI 96822		Tony Sussex	(808) 537-3001; (808) 285-2836	tonysussex@hawaii-rr.com	(808) 536-5309
THE WEBE CORPORATION, LTD. (Subsidiary of Robert's Hawaii)	680 Iwilei Road, Suite 700, Honolulu, HI 96817	Pier 5	Laki Sagiao	(808) 831-1564	laki.sagiao@robertshawaii.com	(808) 522-7866
THEOPHYLLUS, INC. dba KANO TRUCKING	224 Mokauea Street, Honolulu, HI 96819		Wayne Kano	(808) 848-8844	kanotrucking@hawaii.rr.com	(808) 848-4844
TRANSMARINE NAVIGATION CORPORATION	677 ALA MOANA BLVD., STE. 800 Honolulu, HI 96813					
TROPICAL J'S, INC.	5 Sand Island Access Road, Box 122, Honolulu, HI 96819		Gary C. Barnes	(808) 848-0888	gary@tropicaljs.com	(808) 847-3893
TROPICAL RAIN GUTTER AND ROOFING, INC.	5 Sand Island Access Road, Box 141, Honolulu, HI 96819		kim Beattie	(808) 847-0030 (808) 842-1563	info@tropicalroofandgutter.com	(808) 842-1563
TROUBLE FREE CORP.	P.O. Box 8260, Honolulu, HI 96830		Chris Boyles	(808) 864-8864	BOYLES@Commerce/glass.info	(907) 868-1116
U.S. BUREAU OF CUSTOMS AND BORDER PROTECTION, DEPARTMENT OF HOMELAND SECURITY	300 Ala Moana Boulevard, Room 2-267 Honolulu, HI 96813		Jody Hardin, SCBPO	808-522-8001 X223	jody.hardin@dhs.gov	808-522-8005
U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL MARINE FISHERIES SERVICE	2570 Dole Street, (Site address: 1125B Ala Moana Blvd., Honolulu, HI 96814) Honolulu, HI 96822-2396		Robert Dollar	(808) 983-3702	robert.dollar@noaa.gov	(808) 983-8300
UNIROC MARBLE & Granite	5 Sand Island Access Road, Box 101, Honolulu, HI 96819		Jonathan N. Ing	(808) 845-5577	uniroc@yahoo.com	(808) 845-5566
UNITED EXCAVATION EQUIPMENT CORPORATION	653A Mapunapuna Street Honolulu, HI 96819-2032		Calvin Beppu	(808) 292-3725		808-836-5792
UNITED FISHING AGENCY, LTD.	1131 North Nimitz Highway, Honolulu, HI 96817		Daniel Otani	(808) 536-2148	ufa-hi@pixi.com	(808) 526-0137
UNITEK TECHNICAL SERVICES, INC.	P.O. Box 29177, Honolulu, HI 96820		Frank Schumann	808-479-6914	frank@unitekhawaii.com	(808) 845-8305

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Tenant	Address	Location	Point of Contact	Telephone	E-mail	Fax
UNIVERSAL WHOLESALER ASSOCIATION, INC.	P.O. Box 160927, Honolulu, HI 96816		Patrick Chan	(808) 842-7427	pat@uw808.com	(808) 848-8828
URS CORPORATION	615 Piikoi Street, 9th Floor, Honolulu, HI 96814-3141					
VAN, KEVIN dba HI-SEA HAWAII FISHING SUPPLY	Pier 20, Warehouse #6, Honolulu, HI 96817	Pier 20	Kevin Van	(808) 282-1452 (808) 521-6076	hiseafishing@hawaiiintel.net	(808) 533-1405
VIKING V., INC.	309 Ilihu Street, Kailua, HI 96734-1856		John Myking	(808) 254-6228	mykingj001@hawaii.rr.com	(808) 254-1195
WAIKIKI MARINE SALES	91-1217 Kaneana Street, Apt. G Ewa Beach, HI 96706					
WELSH, JR., DARRELL G., AIA	One Aloha Drive, Box 63 Honolulu, HI 96813		Darrell G. Welch Jr., AIA	(808) 585-8522	welchandweekds@hawaii.rr.com	(808) 585-8622
WHITE PUBLISHING COMPANY	One Aloha Tower Drive, Box 137 Honolulu, HI 96813		Tetsuzo Nagashima	(808) 792-0000	tetsu@hawaiiactivities.com	(808) 599-3778
Y. FUNUNGA PRODUCTS, LTD.	5 Sand Island Access Road, Box 125, Honolulu, HI 96819		Neal M. Otani	(808) 841-1555 (808) 479-0129	neal@yfukunaga.com notani55@gmail.com	(808) 847-1555
YIM, DONALD T. dba RAINBOW CRAFT COMPANY	5 Sand Island Access Road, Box 153, Honolulu, HI 96819		Donald Yim	(808) 841-3911	rainbowshell@hawaiiintel.net	(808) 732-8868
YOUNG BROTHERS, LTD.	P.O. Box 3288, Honolulu, HI 96801	Piers 21, 39, 40	Nathan Kapule	(808) 543-9398	nkapule@htbyb.com	(808) 543-9498

APPENDIX D
BLANK TSI FORM

**Tenant Stormwater Compliance Self Inspection Form**

LINE ITEM	FORM FIELD		
Company Information			
Business Name			
Street Address 1			
Street Address 2			
City, State			
Zip Code			
Business Owner / Operator			
Telephone Number			
Email Address			
Fax Number			
Tenant Since (month/year)			
Alternate Contact Name			
Tenant Information			
List Sub-tenants (if applicable)			
EPCRA Section 313 SIC Code			
Lease Number			
Permit Number			
Business Activity Description			
Pollution Prevention Info			
Do you use or store any oil products over 1,320 gallons total (over 24 55-gallon drums or bulk storage. Note: Count only containers over 55 gallons)?		<input type="checkbox"/> YES	<input type="checkbox"/> NO
Does your site have a SPCC Plan (Spill Prevention Control and Countermeasures) (Regulation-Title 40 CFR, Part 112)? If yes, please attach your current SPCC Plan, approved and certified by a registered Professional Engineer, if you did not submit it previously.		<input type="checkbox"/> YES	<input type="checkbox"/> NO
Do you have a National Pollutant Discharge Elimination System Permit (NPDES) or Notice of General Permit Coverage (NGPC), if so what is the number? _____		<input type="checkbox"/> YES	<input type="checkbox"/> NO
Do you generate any Hazardous Waste? If so identify the waste and provide your EPA Generator Identification Number. _____		<input type="checkbox"/> YES	<input type="checkbox"/> NO
What chemicals, which could pollute storm water runoff if released, are presently being stored on-site? (Attach additional sheets as necessary)			
Chemical Name	Quantity	Method of Storage	Outdoor / Indoor

LINE ITEM	FORM FIELD			
Pollution Prevention Info (Continued)				
Check possible pollutants in storm water from your facility/site. This should include any chemicals that are used, stored, or disposed of in the areas where potential pollutants may come into contact with rainwater and/or water runoff. Also include lubrication oil leaks from service equipment and vehicles.				
<input type="checkbox"/> Acid Waste	<input type="checkbox"/> Non-halogenated Solvents*	<input type="checkbox"/> Alkaline Waste	<input type="checkbox"/> Oils and Grease	<input type="checkbox"/> Arsenic
<input type="checkbox"/> Pesticides	<input type="checkbox"/> Cadmium	<input type="checkbox"/> Petroleum Hydrocarbons	<input type="checkbox"/> Chromium	<input type="checkbox"/> PCB's
<input type="checkbox"/> Copper	<input type="checkbox"/> Phenols	<input type="checkbox"/> Cyanide	<input type="checkbox"/> Selenium	<input type="checkbox"/> Halogenated Solvents
<input type="checkbox"/> Silver	<input type="checkbox"/> Herbicides	<input type="checkbox"/> Thallium	<input type="checkbox"/> Mercury	<input type="checkbox"/> Zinc
<input type="checkbox"/> Nickel	<input type="checkbox"/> Lubrication oil leaks	*(see 40 CFR 261.30 for a listing of non-halogenated solvents)		
Are there any other possible pollutants at your facility/site: (Identify them)				
Does your facility operate under a Department of Army Permit (Section 401 WQC)?			<input type="checkbox"/> YES	<input type="checkbox"/> NO
Are there any other Federal Permits that you are required to submit? If so identify the permits.				
Where does your storm water discharge?				
Do you have any floors/decks located in chemical storage areas			<input type="checkbox"/> YES	<input type="checkbox"/> NO
Do you have to submit SARA III reporting?			<input type="checkbox"/> YES	<input type="checkbox"/> NO
Please provide a copy of your facility plans/drawing.				
Attach copies of any storm water studies conducted at your facility.				

LINE ITEM	FORM FIELD	
<p>Non-storm water discharges can be activity-based (subtle) or overt (pipe connections). Activities based non-storm water discharges include, but are not limited to: wash water, diluted solvents/chemicals, floor/dock-apron sweeper waste, and spillage. Typical overt discharges include, but are not limited to: process wastewater, cooling water, and sanitary wastewater.</p> <p>Any post-construction runoff control measures (such as detention basins and vegetated swales) on tenant premises must be maintained by the occupant as per the tenant lease agreement. These post-construction runoff controls will be identified during annual on site tenant inspections.</p>		
Pollution Prevention Info (Continued)		
<p>Are you aware of any non-storm water discharges or unauthorized connections to storm drains or groundwater surfaces at your facility?</p> <p>If yes, please describe location and nature of discharge.</p> <hr/>		<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>Are floor drains or deck drains located in the areas of chemical storage or chemical use, present at your facility?</p> <p>If yes, where is the discharge point?</p> <p><input type="checkbox"/> Sanitary sewer <input type="checkbox"/> Ground surface <input type="checkbox"/> Unknown</p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
Points of Contact for Water Pollution Reporting		
<p>The responsibility to maintain the cleanliness of Hawaii's coastal water lies with all Harbor tenants and users, and Hawaii residents. We all need to pitch in to anticipate, prevent and report inappropriate discharges. Reports of inappropriate discharges may be made to:</p>		
Point of Contact	Telephone Number	
Marine Traffic Control Center	808-587-2076	
Marine Cargo Specialist	808-587-2053	
City and County of Honolulu Environmental Concern Hotline	808-768-3300	
Department of Health, Clean Water Branch	808-586-4309	
Coast Guard	1-800-424-8802	
Feedback		
<p>We want to hear from you on how we can improve this program. Please fill out the comments section below to provide feedback on the information provided and the content of this form.</p>		
Did you find the information in this mailing useful?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
<p>Comments:</p> 		

APPENDIX E

TENANT SELF INSPECTION DATABASE

Honolulu and Kalaeloa Harbors 2009 Tenant Self-Inspection Database

Tenant	Address	Point of Contact	Telephone	E-mail	Fax	Tenant Since Month/Yr	Sub Tenant s	SIC	Lease Number	Permit Number	Primary Use and Activity of Facility	Oil Products Yes/N/A	NPEDES Permit	Hazardous Waste Generator Yes/N/A	SARA III Yes/N/A	Other Federal Permits	Activities Conducted	Storm Water Discharged to	Identification of Potential Pollutant Sources	Chemicals Used on Site	Floors/Decks located in Chemical Storage Areas	Run-off during Dry Weather Yes/No	Non-Storm Water Discharges	Facility Plans Drawings Yes/N/A
AALA Produce, INC. dba AALA SHIP SERVICE	869 North Nimitz Highway,	Rodney Tamamoto	(808) 576-0566	sales@aalaship.com	(808) 526-0102	Jan-01	N/A	N/A	H-98-2		Ship Chandler	No	N/A	N/A	No	N/A	Ship Chandler	Sewer Drain	N/A	N/A	N/A	No	No	No
AES KALAELOA VENTURE LLC	91-086 Kaomi Loop	Robert Shampoe	(808) 682-4113	robert.shampoe@aesh.com	(808) 682-5894	Jun-01	N/A	No	H-89-14		Marine Cargo Handling	No	No	No	No	Non-covered source permit (NSP) No. 0289-01-N	Marine Cargo Handling	Pier Run-off into harbor	Lubrication oil leaks, Unitek 146 Solvent, (Parafinic Napthenic Solvent)	Dust Treat DZ9117-330 gallons (Berm Containment) [Outdoors]; Diesel- 55	No	No	No	Yes (Attached)
AIRCRAFT SERVICE INTERNATIONAL GROUP / HAWAII FUELING FACILITIES CORPORATION	3201 Aolele Street	Ronald W. Barringer	(808) 833-3291 Ext. 24	ron.barringer@asig.com	(808) 833-3295	1969	N/A	424710		H-81-953	Releive, Test, Store, Distribute Jet Fuel	Yes SPCC Submitted Previously	Not for this facility	Yes Tank Bottom Sludges EPA Number-HID 984466805	Yes	No	Relieve, Test, Store, Distribute Jet Fuel	N/A Discharges	Oils and Grease, Herbicides, Petroleum Hydrocarbons (Jet Fuel), Lubrication oil Leaks	Jet Fuel Above Ground Storage (44,083,200 gallon) (Total of 16 tanks) Outside	Yes. There is N/A discharge point. Drains are locked in the closed position and never opened. All water is impounded until evaporated.	No	Rest room in Dispatch Office-Sanitary Waste Water	Yes (Attached)
ALOHA AGRICULTURAL CONSULTANTS, INC. dba NIU NURSERY	P.O. Box 17220	Sidney Goo	845-5991/ 50B Sand Island Access Road	sidgoo@msn.com	808-845-3721	Feb-80	N/A	No		H-00-2233 H-97-1985	Distribution of Garden Supplies	No	No	No	No	N/A	Wholesale Garden Supplies	road, drain		Motor oil 2 qt; paint .5 gal	N/A	No	No	Yes (Attached)
ALOHA CARGO AGENCY, INC.	677 Ala Moana Blvd., Suite 917	Thomas Crescenzi	(808) 536-7033	tom@acthi.com	(808) 531-3004	1-Jan-90	N/A	483111		H-02-2321 H-93-1822	Deck Barge Discharge and Loading	No	No	No	No	PHMSA Haz Mat Cert. Of Registration #0503066000080Q	Deck Barge Discharge and Loading	To open water	Oil and Grease; Potential lubricant oil leaks from vehicles and equipment as cargo in transit, liquids in cargo tanks in transit, containers in transit.	N/A	N/A	No	No	No
ALOHA CONTAINER SALES & RENTAL, INC.	966 Robello Lane,	Richard D. Preston II (Rick Preston)	(808) 843-8600	alohacontainersales.rental@hawaiiintel.net	(808) 843-1805	Nov-02	N/A	4222		H-02-2344	Repair & Maintenance storage & modification of ocean cargo containers	No	No	N/A	No	No	Sale and Rental of Ocean Cargo Containers	Natural Runoff	None	N/A	No	No	Yes, Cesspool behind bathroom (toilet) facility	Yes (Attached)
ALOHA PETROLEUM, LTD.	91-119 Hanua Street	Richard Conner	808-673-4296	rconner@alohagas.com	808-673-2069	Mar-99	N/A	5171	H-96-1 H-89-11		Bulk Fuel Storage	Yes	HIR80A998	Tank Bottoms; HID0000626333	No	Clean Air Permit 0220-01-C 0220-04-N	Bulk Fuel Storage	Into ground and into drain inlet to Harbor	Oil and Grease; Petroleum Hydrocarbons; Lubrication Oil Leaks	Gasoline- 257,000 bbl (Outdoors); Diesel- 67,000 bbl (Outdoors);	No	No	No	Yes (Attached)
ALOHA TOOL & RENTAL, INC. dba Honolulu RECOVERY SYSTEMS CO.	207 Puuhale Road	Craid Matsuo	(808) 841-3179/ 207 Puuhale Road		808-842-0979	1992	None	N/A	H-97-1992	H-97-1999 H-97-1998, H-07-2591	Recycling-Cardboard, Newsprint, containers, etc.	No	HIR60C056	N/A	No	No	Recycling-Cardboard, Newsprint, containers, etc.	Keehi Lagoon	Oil and Grease	Diesel (only when delivered for fueling)	N/A	No	No	Yes (Attached)
ALOHA TOWER DEVELOPMENT CORPORATION	600 Fort Street,	Sandra Pfund	808-586-2530	spfund@alohatower.org	808-586-3046	1992		No		H-95-1892	Development Office	No	No	No	No	No	Waterfront Development	N/A	None	No	No	No	No	No

Honolulu and Kalaeloa Harbors 2009 Tenant Self-Inspection Database

Tenant	Address	Point of Contact	Telephone	E-mail	Fax	Tenant Since Month/Yr	Sub Tenant s	SIC	Lease Number	Permit Number	Primary Use and Activity of Facility	Oil Products Yes/N/A	NPEDES Permit	Hazardous Waste Generator Yes/N/A	SARA III Yes/N/A	Other Federal Permits	Activities Conducted	Storm Water Discharged to	Identification of Potential Pollutant Sources	Chemicals Used on Site	Floors/Decks located in Chemical Storage Areas	Run-off during Dry Weather Yes/No	Non-Storm Water Discharges	Facility Plans Drawings Yes/N/A
AMAZON CONSTRUCTION COMPANY, INC.	5 Sand Island Access Road, Box 139,	Duston K. Onaga	(808) 841-6595	donaga@hawaiiintel.net	(808) 847-6846	Jun-96	N/A	N/A		H-98-2104 DOT-96-136	Specialty Contractor	No	No	None	No	No	Specialty Contractor	Storm Drain	Oils and Grease	Oil- 55 Gallon Drums (Outdoors); Fuel-	No	No	No	Yes (Attached)
AMERICAN DIVERS, INC.	65 North Nimitz Highway, Pier 14,	Roger Nall	808-545-5190 c: (808) 479-5195	rusty@amsgqh.com	(808) 538-1703	Apr-85		No		H-89-1596	Commercial Diving Operations	No	No	EPA ID# HIR000069 575	No	No	Commercial Diving Operations	Honolulu Harbor		Paint 50gal indoor	No	No	No	No
AMERICAN GUARD SERVICES, INC.	677 ALA MOANA BLVD., SUITE 725	Carla O'Bannan	(310) 645-6200	carla@mericanguardservices.com	(310) 645-6233	Jun-06					Security Guard Services	No	N/A	N/A	No	No	Security Guard Services	N/A		N/A	No	No	No	No
AMERICAN MARINE CORPORATION/AMERICAN WORKBOATS, INC.	65 North Nimitz Highway, Pier 14,	Roger Nall	808-545-5190 c: (808) 479-5195	rusty@amsgqh.com	(808) 538-1703	May-85		No		H-01-2277 H-01-2256 H-86-1384 H-86-1386	Marine Construction Operations, Tug Boart and Barge Operations	No	No	EPA ID# HIR000069 575	No	No	Marine Construction Operations, Tug Boart and Barge Operations	Honolulu Harbor		Paint 50gal indoor, Oil 100gal indoor	No	No	No	No
AMERON INTERNATIONAL CORPORATION dba AMERON HAWAII	P.O. Box 29968,	Linda F. Goldstein	(808) 266-2672	lgoldstein@ameronhawaii.com	(808) 266-2669	1959		3273		H-97-1978 H-87-1453	Produce ready mix concrete	No	Yes, Sand Island HI002107 5, Pier 60 HIR10C7 59	HID 980370191	No	No	Produce ready mix concrete	Keehi Lagoon	Particulates from stockpile (rock dust)	None	No	No	No	No
ANUENUE REFUSE, INC.	P.O. Box 29114,	Naomi T. Arakaki	(808) 845-4235	anuenueinc.@hawaiiir.com	(808) 848-0904	Sep-98	N/A			H-98-2093	Refuse Hauling	N/A	DOH File # R60C056	No	No	No	Refuse Hauling	Keehi Lagoon	None	None	No	No	No	No
ATLANTIS CRUISES / ATLANTIS SUBMARINE HAWAII	1600 Kapiolani Blvd, Suite 1630,	Jon Chapman	808-832-6603	ichpman@atlantisadventures.com	808-832-6601	Feb-93	N/A	4489	4489	H-99-2	Submersible and Surface Vessel Maintenance	No	HI R80B138	No	No	No	Submersible and Surface Vessel Maintenance	Kapalma Basin	Waste Oil- 500 gallons (Steel Tank) [Outdoor with secondary containment and covered]; Paint- 60 gallons (Paint Locker) [Indoors]; Solvents- 20 gallons (Metal Container) [Indoors]	Acid waste, Lubrication oil leaks	No	No	Yes, rinse vessels during pre and post operational checks	Yes (Attached)
BERING SEA ECCOTECH, INC.	91-343 Kaiholo Street	James Directo (Operations Manager)	808-330-8991	jamesdirecto@bseak.com	(808) 682-1701	Feb-03	N/A	N/A		H-02-2372	Environmental Cleaning	No	No	N/A	No	N/A	Industrial Cleaning	On the Ground	Oil and Grease	N/A	N/A	No	No	No
CHEVRON U.S.A., INC. Honolulu Transportation terminal	933 North Nimitz Highway	Dennis Morgan	527-2755/ 91-480 Malakole	dekm@chevron.com	(808) 545-1649	Jan-51		5171		H-00-2230 H-93-1812 H-92-1769 H-92-1765 H-90-1676 H-	Terminal manager	Yes	No	HIT000615 260	No	No		South corner of facility	oil and grease, petroleum hydrocarbons, lubrication oil leaks	Petroleum products 16000 gal outdoor above	No	No	No	Yes

Honolulu and Kalaeloa Harbors 2009 Tenant Self-Inspection Database

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CHEVRON U.S.A., INC.Honolulu Marine Terminal	777 North Nimitz Highway	Dennis Morgan	(808) 527-2755/ 91-480 Malakole	dekm@chevron.com	(808) 545-1049	Jan-10		5171		H-00-2230 H-93-1812 H-92-1769 H-92-1765 H-90-1676 H-77-4	Terminal Manager	Yes	No	HIT 000615203	No	No		South side of facility at Harbor wall	Oil and Grease, pertoleum Hydrocarbons, lubrication oil leaks	Petroleum products 14,494,779 gallons above ground	No	No	No	Yes
City & County of Honolulu, DEPT. OF ENVIRONMENTAL SERVICES	1000 Uloohia Street, suite 308	Allen Young	(808) 223-9613	ayoung@honolulu.gov	(808) 848-6532	1949	N/A	No		H-69-7, H-95-1873, H-95-1908, H-02-2320,	Wastewater Pumping Station	Yes	HI R90A411	No	No	No	Wastewater Pumping Station	Into ground and into drain inlet to Harbor	Oils and Greases; Petroleum Hydrocarbons	N/A	No	No	No	No
City and County of Honolulu, dept. of Transportation Services	650 S. king Street, 3rd Floor	Darin Mar	808-768-8353	dmar@honolulu.gov	808-768-6987	Sep-07	None	No		H-07-2596	Park-N-Ride, bus Loading/Unlo iading for TheBoat passenger Ferry Services	No	No	No	No	No	Park-N-Ride, bus Loading/Unl oading for TheBoat passenger Ferry Services	Kalaeloa Harbor	None	N/A	No	No	No	No
City & County of Honolulu, Honolulu FIRE DEPARTMENT (PIER 15)	111 North Nimitz Highway, Pier 15	Captain Lance Orillo or Mr. Mark Saizon	808-523-4957	msaizon@honolulu.gov	808-524-9032	1950	N/A			H-91-22	Fireboat Operations	No	No	No	No	No	Fireboat Operations	Into harbors storm drain	Oil and Grease	Engine Oil 110 gallons indoor	No	No	No	No
CLEAN ISLANDS COUNCIL	179 Sand Island Access Road,	Kim Beasley	(808) 845-8465	kimb@cleanislands.org	(808) 845-8457	1991	N/A	N/A Not required to report-SIC Code; 4959		H-93-1815 H-90-1689 H-94-1842	Emergency Oil Spill Response	No	None	No	Yes	None	Emergency Oil Spill Response	Over the bulkhead to Harbors water	N/A	Gasoline (Less than 20 gallons in cans); Paint (Less than 50	Yes	No	No	Yes (Attached)
CONCRETE CORING CO. OC HAWAII, INC.	99-1026 IWAENA STREET	Nathan Sabey	(808) 330-7516	Nsabey@penhall.com	(808) 487-6679		None	N/A		H-02-2355 / H-00-2235	Construction base yard	No	No	No	No	No	Construction base yard		lubrication oil leaks, poss ble	None	No	No	No	No
D & K PETROLEUM, INC.	P.O. BOX 5499																			N/A				
DAVENPORT HAWAII PARTNERS, LP	1400 QUAIL ST., STE. 195	Angela Brand	949.640.5100	abrand@davenportpartners.com	949.640.5141	Jul-02	Japan Foods		H-85-1		Office and Warehouse	No	No	No	No	No	Office and Warehouse		None	None	No	No	No	No
DD-M LEASING, INC.	65 North Nimitz Highway, Pier 14,	Tiare Ohelo	(808) 791-0067 (office) (808) 772-9124 (Cell)	theoheios@gmail.com	(808) 944-4835	2004	N/A	N/A	H-300138	H-04-2467	Office Space Only	No	N/A	N/A	No		Office Space Only			N/A				
DEDRICK, DEWAIN A.	701 North Nimitz Highway,	Dewain Andrew Dedrick	(808) 587-7779	andrew@bellapietra.com	(888) 251-4569	Jun-03	None	No	H-06-2552	H-02-2383	Distribution Natural Stone Tle no manufacturin g	No	N/A	N/A	No	None	Distribution Natural Stone Tle no manufacturin g	Drain near Harbor Police Office	Oil and Grease from forklift	None	No	No	No	Previously submitted
DEPENDABLE HAWAIIAN EXPRESS, INC.	703 North Nimitz Highway,	Ron Richardson	(808) 841-7311 x1701	richardson@dhx.com	(808) 791-2785	2001	N/A	N/A		H-01-2285	Freight Forwarding	No	N/A	No	No	N/A	Freight Forwarding	Ocean	N/A	N/A	No	No	No	No
DRAFTSTONE COMPANY, INC.	P.O. Box 161117	Waldemar Rojek	808-737-4696	draftstone@gmail.com	808-737-4694	Jan-00	N/A	No		H-01-2274	Storage od Natural Stone	No	No	No	No	No		Naturally	N/A	N/A	No	No	No	No

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EARTH TECH, INC.	841 Bishop Street, Suite 500	Leslie Field/ Paul Chinen	(808) 523-8834	leslie.field@earthtech.com	(808) 523-8950	Office-Dec 2000 Warehouse- April 2000	N/A	N/A	Grapac Properties (Warehouse); Davies Pacific Center (Office)		Environmental Services/Civil Engineering Design	N/A	N/A	N/A	N/A	N/A	Environmental Services/Civil Engineering Design	N/A	N/A	N/A	N/A	No	No	No
ED YAMASHIRO, INC.	45-552 Kamehameha Highway,	Aaron Yamashiro	(808) 247-6628 808-228-2189	eky2.inc@hawaiiintel.net	(808) 247-7870	May-78	N/A	42127353		H-91-1737	Hauling	Yes	No	No	No	No	Hauling	Ground Drainage		ULS Diesel Fuel ~ 5400 gallons outdoor	secondary containmnet around fuel tank	No	No	Yes (Attached)
EQUILON ENTERPRISES, LLC/Shell Oil Products US Honolulu Terminal	789 N. Nimitz Hwy	Dwight Amemiya	808-537-3911	Dwight.amemiya@shell.com	808-538-1075	1950	N/A	5171		H-98-2068 H-98-2067 H-98-2066 H-98-2065 H-98-2064	Petroleum Fuel Terminal	Yes	HIR80B250; HI02FB319; HI98HA808	Yes; Oily debris waste related to the maintenance of storage tanks; HID000631655	Yes	None	Petroleum Fuel Terminal	Honolulu Harbor	Oil and Grease, petroleum hydrocarbon, ;ubrication oil leaks	Gasoline & Ethanol-(2,622,600 gallons) [Outdoors above ground storage]; Diesel (3,934 gallons)	No	No	Yes	Yes (Attached)
ERIK BUILDERS, INC.	50-CC Sand Island Access Road,	Jimmy Sakata	845-7736/ 808-224-1033	ebihi@hawaiiintel.net	808-841-0591	1978		No		H-98-2092 H-97-1984	General Contractor	No	No	No		No		out from driveway		N/A	No	No	No	No
FRANK P. WHITE JR. PROPERTIES dba CONTAINER STORAGE CO.	2276 Pahounui Drive,	Frank White	(808) 841-5555/ 2276 Pahounui Drive	fpwhite@aloha.com	(808) 845-5552	Sep-89		No		H-01-211 H-97-1986	Storage of Ocean Containers empty	No	No	No	No	No	Storage of Ocean Containers Empty	Ground	N/A	N/A	No	No	No	No
Fresh Island Fish, LLC	1135 North Nimitz Highway	Derek Higa	808-831-4911	derek@freshislandfish.com	808-836-8762	Nov-06		N/A	H-05-24		Fresh Fish Wholesaler	No	No	No	No	No	Fresh fish Wholesaler	in a trap	None	None	None	No	No	No
FRIENDS OF HOKULE'A & HAWAII'LOA	P.O. Box 696,	Jay Dowsett	261-1841 256-1841/ Sand Island Access Road Pier 62	dowsettj001@hawaii.rr.com		1996		3732		H-98-2074	Canoe Building/Repair	No	No	N/A	No	N/A	Canoe Building/Repair	Ocean		N/A	No	No	No	No
FRIENDS OF FALLS OF CLYDE	P.O. BOX 25008																		N/A					
FUKUNAGA, PAUL N. dba P.F. MARINE	1391 Haloa Drive	Paul N Fukunaga	842-1330		(808) 845-8255	Jul-02	None	No		H-02-2339	Fiberglass boat repair	No	No	No	No	No	Fiberglass boat repair	To road/ On site		Polyester Resin, 55 Gallons,	Yes	No	No	Yes (Attached)
GILLIS, EUGENE dba EXCAVATION SERVICES	5928 Kalaniana'ole Highway,	Eugene Gillis	808-383-1959	kgillis@hawaii.rr.com	808-395-1959	Oct-02	None	No		H-02-2366	Storage	No	No	No	No	No	Storage	None	0	N/A	No		No	No
GLP ASPHALT, LLC	94 KAMOKI LA BLVD., STE 100																		N/A					

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HAWAII MARITIME CENTER	1525 Bernice Street	Karla Vasey	(808) 599-3810	karla@bishophmuseum.org	(808) 536-1519		Best Restaurant	712110	H-87-30		Museum and Falls of Clyde. Falls of Clyde transferred to friends of the Falls of Clyde on 9-30-08	No	No	No	N/A	N/A	Museum and Falls of Clyde	Ground	N/A	N/A	No	No	No	See Bishop Museum Facility Support Office 1525 Bernice Street Telephone-848-4141
HAWAII PAINTING & WALLCOVERING	P.O. Box 17038,	Dean & Brian Negatoshi	(808) 479-6825 (808) 479-6501	HPW-Consulting@hawaii.rr.com	(808) 247-2676		N/A	No		H-99-2153	Storage	No	No	No	No	N/A	Storage	Unknown	N/A	N/A	No	No	Unknown	No
HAWAII STEVEDORES, INC.	P.O. Box 2160,	Jeff Brennan	527-3414/ 965 N. Nimitz Highway	jbrennan@hawaiiistevadores.com	(808) 527-3448	1990	Pacific Ocean Producers, KEMS Kewalo & Hawaii Stevedores/Castle & Cooke FCU	No	H-90-4	H-98-2038 H-96-1912 H-92-1794 H-90-1682 H-92-1753 H-84-1195	Marine Cargo Handling	Yes	R80A305	Yes, 061107 043 023P	No	No	Marine Cargo Handling	storm drain to harbor		N/A	No	No	No	Yes
HAWAII SUPERFERRY	1 Waterfront, Suite 300	John Keever	808-853-4134	john.keever@hawaiiisuperferry.com	808-531-7410	Sep-07	N/A	N/A		H-07-2583	Passanger/cargo water transportation	No	No	No	No	No	Passanger/cargo water transportation	Honolulu Harbor	Acid Waste, Oils and Grease, Lubrication oil leaks	Formula 7961 (acid) 4 gallons indoor, Lube Oil	No	No	No	Yes (Attached)
HAWAIIAN AQUA PRODUCTS	1130 Wilder Avenue, Suite 102,	Evelyn Lim	(808) 521-5468	evylim2@aol.com	(808) 521-5477	Aug-79	N/A	N/A		H-97-2002	Fiberglass Fabrication, Boat Building	No	H-120A 196	N/A	no	N/A	Fiberglass Fabrication, Boat Building	Keehi Lagoon	None	N/A	N/A	No	No	No
HAWAIIAN CEMENT	99-1300 Halawa Valley Road,	Dane Wurlitzer	532-3407	dane.wurlitzer@hawaiiancement.com	(808) 441-7696	1970's	None	5032	H-88-36 H-98-10	H-88-1540	Portland Cement import and distribution	No	Exempt Maritime Facility-letter on file.	CESQG	No		Portland Cement import and distribution	Stormwater basin harbor drian	Cement /Particulate matter, Oils and Grease, Petroleum Hydrocarbons, Lubrication oil leaks	Cement 60K MT enclosed indoors, Petroleum <500 Gallon Various	No	No	No	Yes
HEALY TIBBITTS BUILDERS, INC.	99-994 Iwaena Street, Suite A,	Glen Toyama	(808) 487-3664 (808) 682-6104	gtoyama@hawaii.rr.com	(808) 682-3736; (808) 487-3660	Apr 2006; Jul 1991	N/A	237990		H-06-2538: H-92-1783	Construction Storage Yard	No			No	No	Construction Storage Yard	Ground Drainage	Lubrication oil leaks	N/A	N/A	No	No	Yes (Attached)
HEUMANN, JAMES dba WIND & SEA CHARTERS	P.O. Box 8672,	Jim Heumann	(808) 220-2675	jmh@lava.net	(808) 732-6454	1-Jun	N/A			H-99-2128	Woodworking - Boat repair	No	No	No	No	No	Woodworking - Boat repair	thru a grate in parking area		Acetone 2 gallons indoor	No	No	No	No
Honolulu AGENCY, INC. & OCEANIC GLOBAL TRADING	P.O. Box 4165,	Steven Yoshizawa	808-454-1255	steveny@hawaiiantel.net	(808) 454-1256	1971	Irrigation Systems, Inc.		H-99-1	H-03-2394	Ship Agent and Ship Chandler	No	No	No	N/A	No	Ship Agent, Ship Chandler, Pipe Supply	ocean		N/A	No	No	No	Yes (Attached)
HONOLULU MARATHON ASSOCIATION	1635 Citron Lane	Ronald Chun	808-946-0539 808-255-2602	rchun@honolulumarathon.org	808-941-1380	Jul-06	None	No		H-06-2544	Produce Long Distance Running Events	No	No	No	No	No	Produce Long Distance Running Events	Natural flow to the road	Lubrication oil leaks	None	No	No	No	Yes (Attached)

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HONOLULU RECOVERY, INC.	1391 MIKOLE STREET																			N/A				
HORIZON LINES, LLC	1601 Sand Island Parkway	Frank Roznerski	808-842-5389	froznerski@horizonlines.com	808-842-5394		N/A	483111	H-90-4		Ocean Cargo Terminal Facility	Yes	HI R808909	No	No	No	Ocean Cargo Terminal Facility	Honolulu Harbor	Cadmium, Copper, Oil and grease, Petroleum Hydrocarbons, Zinc, Lubrication oil leaks	Petroleum Hydrocarbons 20,000 gallons	No	No	No	Yes (Attached)
HPBS, INC.	P.O. Box 721,	Fay Leong	532-7233/ Pier 19	officeadmin@hawaiiipilots.net	(808) 532-7229	Sep-93	N/A	N/A		H-99-2159 H-93-1819	Provide Pilot Boat Services & Dispatching Services	No	N/A	None	No	N/A	Harbor Pilots		N/A	N/A	None	No	No	No
IAN J. LANSDOWN, dba HAWAII'S SAILING CENTER	665 IANA Street,																			N/A				
IMPERIUM RENEWABLE HAWAII LLC	P.O. Box 3767	Adrienne Barnes	808-532-9702	adrienne.barnes@imperiumrenewables.com	808-356-0697	Not Signed yet		N/A			Will construct and operate a biodiesel processing facility	No	Will obtain NPDES permit for construction and operation and will submit to DOT upon issuance	No	No	No	Will construct and operate a biodiesel processing facility	Currently storm water @ future site drains toward malakole street in a swale that leads to the pacific ocean.	N/A	N/A	No	No	No	Yes
INCHCAPE SHIPPING SERVICES	521 ALA MOANA BLVD., STE. 256																			N/A				
ISHIKAWA, NORMAN & DOLORES dba NORMAN'S TRACTOR SERVICE	P.O. Box 2280,	Theresa L. Alcosiba	(808) 778-0344	nts96819@hotmail.com		1965	None	No		H-97-1988	Demolishing, Grading & Hauling	No	None	No	No	None	Demolishing , Grading & Hauling		Oil and Grease,	Waste oil 3 barrels(55gallon drums)	No	No	No	Yes (Attached)
ISLAND MOVERS	P.O. Box 17865,	Ryan K. Fukunaga	(808) 832-4813	ryanf@hawktree.net	(808) 832-2701	1970	N/A	4225		H-00-2197 H-90-1642	Warehousing	No	HI R80A506	No	No	No	Warehousing	Honolulu Harbor	Alkaline Waste; Oils and Grease; Lubrication Oil Leaks	Lube oil 400-gallon indoor, antifreeze 250 gallon	No	No	No	Yes (Attached)
ISLANDS BEACH ACTIVITIES	P.O. Box 8181	Herbert Bessa	808-946-7490		808-955-0818	Jul-06	None	No		H-06-2543	Storage	No	No	No	No	None	Storage	None	None	None	None	No	No	No
JAPAN FOOD (HAWAII), INC.	P.O. Box 4404,	Toshiaki Wada	(808) 537-9528 887 N Nimitz Highway Pier 34		(808) 536-0389	Jul-02	N/A	N/A		H-02-2330	Office and Warehouse for Japanese Food	No	No	No	No	No	Japanese Food		None	N/A	No	No	No	No

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JAS. W. GLOVER, LTD	P.O. Box 579	John Romanowski	(808) 591-8977 (808) 864-0368	johnr@gloverltd.com	(808) 591-8978	Oct-06	N/A	No		H-06-2553	the function of this property is to serve as an aggregate stockpile area.	No	Yes, File Number HI R70C472	No	No	No	Aggregate & RAP Stockpiling	Keehi Lagoon (21° 19'37"N 157°53'29"W)	Lubrication oil leaks	N/A	No	No	No	Yes (Attached)
K-Sea Transportation, Hawaii Division (formerly UAUKEWAI DIVING, SALVAGE & FISHING, INC.)	Pier 21,	Bill Boland	522-1000 780-2278	wboland@K-Sea.com	(808) 522-1011		None	No		H-01-2273 H-01-2249 H-93-1816 H-93-1804	Operating towboats	No	No	No	No	No	Operating towboats	Honolulu Harbor	Lubrication oil leaks	N/A	No	No	No	Yes
KAGAMI, INC.	P.O. Box 745,	Wayne M. Kagami	(808) 523-5700	peeks2096@aol.com	(808) 523-5757	Jan-02	N/A	N/A		H-02-2343	Contracting; Environmental Investigation of Subsurface Area, Remediation Activities Piers 18-38	No	No	No	No	No	Contracting; Environmental Investigation of Subsurface Area, Remediation Activities Piers 18-38	Harbor	N/A	N/A	No	No	No	No
KEALOHALANIEQUIPMENT & RENTAL, INC.	47-497 HUI AEKO PLACE																		N/A					
KERR PACIFIC CORP, dba HFM Foodservice	P.O. Box 855,		843-3217/ 716 Umi Street						H-86-1 H-79-1											N/A				
KIRKWOOD CLARKE dba HAWAIIAN CATAMARAN MULTIHULL DESIGN	50-C Sand Island Access Road,	Matt Buckman	(808) 306-6012		(808) 841-8063					H-97-2000	Boat repair and fabrication-some welding	No	No	No	No	No	Boat repair and fabrication-some welding	Makai ewa corner	Chromium; copper; oil and grease	Acetone 5 gal; resin 5 gal; paint 5-5gal	No	No	No	Yes (Attached)
KNIGHT UNLIMITED, dba KNIGHT TRANSPORT	99-818 MEAALA STREET																		N/A					
KONG ENTERPRISES, INC.	P.O. BOX 5187	Richard Kong	(808) 478-3582	rkingkong@aol.com	(808) 239-0077	Apr-07					Dry good storage	No	No	No	No	No	Dry good storage	roadway		N/A	No	No	No	No
KO OLINA MARINA, LLC.	92-1480 Aliiuni Drive,	Russell "RD" Doane	(808) 679- 1050 or 671-2512	rd@koolina.com	(808) 679-1055	Mar-00	N/A	N/A	H-89-1		Slip Rentals	N/A	N/A	N/A	N/A	N/A	Slip Rentals	Marina Basin	N/A	N/A	N/A	No	No	No
KUMU CORP.	50 K Sand Island Access Road,	Dan Kahler	(808) 848-2026 808-223-2577		808-847-0586	1991	N/A	N/A		H-97-1995	Transmission Parts	No	No	N/A	N/A	N/A	Transmission Parts	Keehi Lagoon	Oil and grease, Lubrication Oil Leaks	N/A	No	No	No	Yes (Attached)
MARINE PETROLEUM CORPORATION	P.O. Box 29249,	Michael P. Rossman	(808) 842-3538	marine.fuel@hawaiiantel.net	(808) 842-0316			5172		H-98-2082	Distribution	Yes	N/A	N/A	No	No	Distribution	Never been advised	Oil and Grease	Lube oil in drums	No	No	No	No

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MARINE SPILL RESPONSE CORPORATION	179 Sand Island Access Road,	Stuart Larson	425-304-1547	larson@msrc.org	425-339-1229	Jun-93	N/A	4959 NAICS-562910		H-94-1845	Oil Spill Response	Yes, 90,000 Gallon #2 Diesel-below deck fuel tanks (208' vessel)	N/A	No, used oil only	No	No	Oil Spill Response	this is a 208' vessel for oil spill response	Oil and Grease, pertroleum Hydrocarbons, lubrication oil leaks	See attached chemical inventory sheet	No	No	No	Yes
MARISCO, LTD.	91-607 Malakole Road,	neil	808-564-0730	bmccaffery@marisco.net	808-682-5848	Jan-89	A&B Electric, The Boat		H-90-10	H-00-2224 H-99-2186 H-96-1901	Dry Dock/ Ship Repair	No	HI-0021786	Yes, HIR000135442	Yes	N/A	Dry Dock/ Ship Repair	ground via sump	Oil and Grease, Lubrication Oil Leaks	Used Motor Oil 200 gallons outdoor,	Yes	No	No	No
MARITIME LICENSE CENTER	1311 Kapiolani Blvd, Suite 407,	Charles Howard	589-0123	trng@marictr.com	(808) 591-6276	Jan-00	N/A	N/A		H-02-2364 H-01-2298	Life Boat Training	No	No	No	No	No	Life Boat Training	Pier	N/A	N/A	N/A	No	No	No
MASUDA, RICHARD dba RICHARD K. MASUDA MASONRY	833 Ekoa Place,									H-97-1987									N/A					
MATSON NAVIGATION COMPANY, INC. / MATSON TERMINALS, INC	P.O. Box 899, P.O. Box 2630,	Keahi Birch	848-1321/ Pier 51-B Sand Island Access Road	kbirch@matson.com	(808) 845-3892	Jul-79	N/A	4491	H-79-5	H-84-1237, H-00-2225 H-99-2156 H-98-2116 H-82-1011	Marine Cargo Handling	Yes SPCC Submitted Previously	NGPC-File No. HI R80A152	Yes HID 981628340	No	Industrial Wastewater Discharge Permits No. 20040526 and No. 20040591	Marine Cargo Handling	Honolulu Harbor	Oils and Grease; Petroleum Hydrocarbons	Paint- 100 gallons (Storage Shelf) [Indoors]; Unleaded Gas- 5000 gallons (UST) [Outdoors]; Diesel Fuel- 10,000 gallons	No	No	No	Yes (Attached)
MC & A, INC.	615 Piikoi Street, Suite 1000,	Martin Fayardo	808-589-5500	marty_fayardo@mcahawaii.com	(808) 589-5501	Jan-01	N/A	N/A		H-03-2405	ground Operations for cruise ships	No	No	No	No	No	ground Operations for cruise ships			N/A	No	No	No	No
McCABE, HAMILTON & RENNY	P.O. Box 210,	Andrew Souza	808-479-0356	andrewsouza16@msn.com	808-538-6486	Nov-94				H-99-2160 H-96-1911 H-93-1820 H-90-1630	Repair Shop	No		No	No	No	Repair Shop	Harbor	Oil and Grease	N/A	No	No	No	No
MID PAC PETROLEUM LLC	677 ALA MOANA BLVD., SUITE 625																		N/A					
MILLER/WATTS CONSTRUCTORS, INC.	737 Bishop Street, Suite 2900	Vincent E. Fragomene	808-543-5201	vince.fragomene@watts-con.com	808-543-5208	Jan-07	N/A	N/A		H-06-2564	Heavy Civil Contractor	No	HI 06GC529 HI R10C527	N/A	No	None	Heavy Civil Constructor	Lat. 21 deg; 18 min; 30 sec N Long. 157deg; 53min; 18sec W		N/A	No	No	No	Yes (Attached)
MOANA PA'A KAI, INC. (Subsidiary of Young Brothers)	P.O. Box 3288,	Nathan Kapule	(808) 543-9398	nkapule@htbyb.com	(808) 543-9458	1999	N/A	483211		H-99-2175	Inerisland cargo tug and barge operations	No	HI R80B059	CESQG HID 982411357	No	No	Towing and Tugboat Services	Honolulu Harbor	Oils and Grease; zinc	Used oil less than 500 gallons,	No		No	Yes
MURAO, JOY P., dba RJ LUNCHWAGON	1410 Noelani Street	Joy Murano	808-485-2233 808-271-8917	joymurano@aol.com		Feb-06	None	N/A			Concession-Food Service Mobile	No	None	None	None	None	Concession-Food Service Mobile	None	None	None	None	No	No	No

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NANAKULI NEIGHBORHOOD HOUSING SERVICES	P.O. Box 17489,	Paige Kapiolani Barber	(808) 842-0770	alohakap@gmail.com	(808) 842-0780	Jun-01	None	No		H-01-2248	Collect reusable construction materials and distribute to families in need, diversion form landfill	No	None	None	No	None	Non Profit Recycling Construction Materials, Homeowner ship Training	Stormdrain	Oils and Grease; Lubrication Oil Leaks (forklift, truck)	N/A	No	No	No	Yes (Attached)
NCL AMERICA, INC. (1 ship in service- Pride of America)	745 Fort Street, Suite 1600	Grant Karamatsu	808-527-3857	gkaramatsu@ncl.com	(808) 527-3820	Jan-05		No		H-05-2480	Cruise Vacations	No	No	No	No	No	Storage	N/A		None	No	No	No	No
NORKO MARINE AGENCY, INC.	791 North Nimitz Highway,	Norman Cheu	(808) 536-4568	ncheu@norkomarine.com	(808) 536-4866	Apr-02	N/A	N/A		H-01-2314	General Office	No	No	No	No	No	General Office	None	None	N/A	No	No	No	Yes (Attached)
OCEANTRONICS, INC.	711 North Nimitz Highway,	Olinda D. Amtsberg	(808) 522-5600	amtsberg@msn.com	(808) 522-5222	Nov-98	N/A	N/A		H-98-2102	Marine & Landmolile Sales, Service & Repair	No	No	No	No	No	Marine & Landmolile Sales, Service & Repair	Unknown	N/A	N/A	N/A	No	No	No
OHAI, LEO A.	P.O. Box 28002,	Nephi Ohai	(808) 531-2524	nephi@laua.net	(808) 550-8381	Jan-62	N/A	N/A	H-99-3		Fishermen	N/A	N/A	N/A	N/A	N/A	Fishermen	City	N/A	N/A	N/A	No	No	No
P & R WATER TAXI, LTD.	P.O. Box 2851,	Sandra C. Pires	808-599-3809	s.pires@pnrwatertaxi.com	808-521-2456	1995	None	4489		H-05-2504 H-91-1714	Launch Service	Yes	HI R80A153	No	No	None	Provide Water Taxi Service to Barber's Point	Over the bulkhead to harbor waters	Oil and Greas, Petroleum Hydrocarbons	refer to Chapter 3.2 of the SWPCP	No	No	No	No
PACIFIC COMMERCIAL SERVICES, LLC	5 Sand Island Access Road, B931 Unit 115	Jingho Chung	808-545-4599	jingbo.chang@pcshi.com	808-845-9773	Dec-04	N/A		H-02-223	H-06-2529	Environment al Services	No	No	No	No	No	Environment al Services	?	None	None	No	No	No	Yes (Attached)
PACIFIC ENVIRONMENTAL CORPORATION	65 North Nimitz Highway, Pier 14,	Teal Cross / Jeremy Sirkin	(808) 545-5195	jeremy@penco.org teal@penco.org	(808) 524-2307	May-85	N/A	NACICS-562910		H-98-2055 H-96-1898 H-93-1817	Full Service Environment al Company	No	No	HID984467530	N/A	No	Full Service Environment al Company	Honolulu Harbor		Paint 50 gal indoor, oil 100 gal indoor	N/A	No	No	No
PACIFIC FISHING AND SUPPLY, INC. (Same as Petro Pacific)	P.O. Box 27378,	Roger Dang	533-1195/ 867A N Nimitz Highway	pacificfishing@gmail.com	(808) 533-2141	Mar-95	N/A	None		H-97-1969	Commercial Fishing Supplies	No	No	N/A	No	None	Commercial Fishing Supplies			N/A	No	No	No	No
PACIFIC OCEAN PRODUCERS, INC.	1133 North Nimitz Highway,	Arlen Walsten	537-2905 x105/ 1133 N Nimitz Highway	arlen@pophawaii.com	(808) 536-3225	2004	N/A	441222, 451110	H-03-18	H-98-2096 H-98-2079 H-95-1865	Retail/Whole sale Sales of Commercial and Sport Fishing Supplies marine hardware.	No	No	No	No	None	Retail/Wholesale Sales of Commercial and Sport Fishing Supplies marine hardware.	Honolulu Harbor & Stormdrains	Lubrication Oil Leaks	None	Yes	No	No	Yes (Attached)
PACIFIC SHIPYARDS INTERNATIONAL, LLC (PREVIOUSLY HONOLULU SHIPYARD, INC.)	P.O. Box 30989,	Michael Ebbert/ Environmental Manager	(808) 848-6211	mebbert@pacificshipyards.com	(808) 848-6279	Oct-84	N/A	3731		H-98-2123 H-84-1229	Ship Building and Repairing	Yes	HI0020753	Yes, HID990675704	No	No	Ship Building and Repairing	Honolulu Harbor	Acid Waste, Cadmium; Chromium; Copper; Mercury; Oils and Grease; Petroleum Hydrocarbons; Zinc; Lubrication Oil Leaks	Diesel Fuel (4,000 gallons AST-Containment-Outdoors); Paints (1200 gallons in 1, 5 and 55	Yes	No	No	No

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PANG, SANDRA dba SP LUNCH WAGON	139 Mokauea Street,	Sandra Pang	(808) 848-0040 (808) 778-4686				N/A	N/A		H-91-1735	Lunch Wagon (Only park for couple of hours and serve lunches. No cleaning or draining is done on Harbors property.)	No	No	No	No	No	Lunch Wagon	N/A	N/A	N/A	N/A	No	No	No
PARADISE CRUISE, LTD.	1540 South King Street,	Captain Rich Davison	808-983-7765	RHardtDavison@aol.com	808-983-7782	Jun-57	N/A	N/A	H-98-11 (Pier 8 Mooring permit, berthing only, no land	H-99-2137 Terminated 10-06, H-98-2121, H-94-1843 Terminated 1-99, H-89-1585 Terminated 8-04	General Manager	No	No	No	No	No			None	None	No	No	No	No
PENDLETON FLOUR MILLS, LLC dba HAWAIIAN FLOUR MILLS	P.O. Box 1238,	Tim Byam	(808) 527-3272	tbyam@pfmills.com	(808) 522-5554	1964	DHX	2041		H-01-2283	Flour Milling	No	No	No	No	No	Flour Milling	Ground, Over bulkhead to Harbors Waters	Oils and Grease, Pesticides	Hydrogen Phosphide-3104 cells (outdoors	No	No	No	Yes (Attached)
PETROSPECT, INC.	499 North Nimitz Highway	David Harrington	(808) 536-6626	dharrington@petrospect.net	(808) 531-1359	Mar-87	N/A	N/A		H-88-1517 H-87-1411	Petroleum Inspection	No	No	No	No	No	Petroleum Inspection	Harbor	Petroleum Hydrocarbons	Hydrocarbons varies in saze stored	Second Floor	No	No	No
PIONEER MACHINERY, INC.	P.O. Box 22265,	Rodney Yee	(808) 371-4892	allstaryee@yahoo.com	(808) 833-5614	Apr-07	N/A	327390		H-90-1678	Casting Concrete Slabs	No	No	No	No	N/A	Casting Concrete Slabs	On to the road	N/A	N/A	No	No	No	Yes
PRYNE, TY dba H.B.N.	742 Queen Street, Suite 301,	Ty Pryne	(808) 597-8120	tyhbn@co-centric.net	(808) 593-8199	2000	No	No		H-01-2271	Boat Storage	No	No	No	No	No	Boat Storage	Roof/Warehouse Only	N/A	None	No	No	No	No
R.C. INTERNATIONAL, INC.	P.O. Box 22276,	Calvin Wong/ Wai Phan Chan	(808) 223-2828 (808) 383-8339	RCI168@hotmail.com	(808) 941-9169	Feb-01		No		H-00-2241	Seafood Drying	No	No	No	No	No	Seafood Drying	In front of the warehouse	No chemicals	N/A	No	No	No	No
REBECCA'S FINE COLLECTION dba R.F.C. GROUP	1585 Kapiolani Blvd., #812																		N/A					
RON'S CONCRETE SPECIALISTS, LTD.	P.O. Box 17370	James A. Mainaapu	845-0467/ Sand Island Access Road	ronsconcretesimalist@yahoo.com	845-0573	Jan-02	N/A	N/A		H-98-2115	Concrete Subcontractor	No	No	No	No		Concrete Subcontractor	On to dirt road into ground	Oil and Grease, petroleum hydrocarbons, lubrication oil leaks	W.B resin Cure 1 - 55gal drum outdoor, Cleanstrip 1 - 55gal	Yes, Concrete	No	No	Yes
SAITO, LINCOLN TIMOTHY dba KOKUA RECYCLE	1058 12th Avenue, Unit B	Timothy Saito	808-284-0420	TimothySaito@yahoo.com		Apr-96	N/A	N/A		H-97-1991	Sort and Store Glass Beverage Bottles for Resale	No	No	None	No	None	Sort and Store Glass Beverage Bottles	On to the road	None	None	None	No	No	No

Honolulu and Kalaeloa Harbors 2009 Tenant Self-Inspection Database

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SAUSE BROS., INC.	705 North Nimitz Highway,	Wayne Stachel	(808) 306-2177	Waynes@sause.com	(808) 533-4109	2001; 2004	N/A	N/A		H-01-2261 H-94-1833 H-93-1823 H-93-1800	Maintenance and Repair Support for Tug and Barges as well as Logistics Support (Parts, Supplies, Storage, etc.)	No	No	No	No	None	Maintenanc e and Repair Support for Tug and Barges as well as Logistics Support (Parts, Supplies, Storage, etc.)	Over the bulkhead to Harbors water	Oils and Grease, Petroleum Hydrocarbons	None	N/A	No	No	Yes (Attached)
SEA ENGINEERING, INC.	Pier 21,	W. Patrick Ross	(808) 536-3603	pross@seaengineering.com	(808) 536-3703	1992	None	237990		H-07-2594 H-93-1814 H-01-2289	Marine Engineering and Construction	No	No	No	No	No	Equipment and Supply Storage, Maintenance Area.	not sure		N/A	No	No	No	Yes
SIU, WAI LUN	2336A Kahauiki Street,	Raymond Siu	808-256-2907	siucancook@aol.com		Dec-98	N/A			H-98-2114 H-00-2199	Food Service	No	No	No	No	No	Food Service	Ocean	Oil and Grease	None				
STATE OF HAWAII, DOAG/CRIMINAL JUSTICE	425 Queen Street,	Kern Nishioka	(808) 586-1383	kern.k.nishioka@hawaii.gov	(808) 586-0932	7 years	Sherrif			H-99-2155	Criminal Justice	No	No	No	No	N/A	Criminal Justice	Storm Drain	Oil and Grease; lubrication oil leaks	Gas (fuel for forklift and vehicles) in	No	No	No	No
STEINKE BROTHERS, INC.	98-889 Kaahele Street,	Robert Steinke	(808) 488-9668 808-478-9777		(808) 486-9458	1985	N/A	N/A		H-97-1981	Construction Material Storage	No	N/A	No	No	N/A	Construction Material Storage	Drains to Roadway	N/A	None	No	No	No	Yes
SUBMARINES HAWAII, L.P. (Subsidiary of Robert's Hawaii)	680 Iwilei Road, Suite 700,	Laki Sagiao	(808) 831-1564	laki.sagiao@robertshawaii.com	(808) 522-7866	1984	N/A	N/A		H-99-2168 H-97-1951 H-94-1849	Mooring and Support Facility	No	N/A	N/A	No	No	Mooring and Support Facility	Harbor	Oil and Grease	oil waste 4-55gal outdoor	None	No	No	No
TESORO HAWAII CORPORATION-SAND ISLAND TERMINAL	431 Kuwili Street,	Wade K. Nakashima	(808) 547-3830	wnakashima@tsocorp.com	(866) 873-3451	Nov-74	N/A	5171	H-80-3		Bulk Petroleum Storage and Distribution	Yes	NGPC No. R80A725	EPA I.D. No. HIR 0000 40535	Yes	No	Fuel Supply and Distribution	Honolulu Harbor Kalihi Channel only when closed valve is opened under supervision.	Oils and Grease; Petroleum Hydrocarbons; Herbicides	Diesel 19,526 bbl ast outdoor; Transmix 12,718 bbl ast outdoor; Additives-	No	No	No	On file
THE GAS COMPANY, LLC	P.O. Box 3000,	Kevin Nishimura	(808) 594-5573	knishimu@hawaiigas.com	(808) 594-5610	1950	N/A		H-03-2424	H-93-4 H-80-9 H-72-15 H-69-4	LPG Storage and Propane Air Unit	Yes	No	No	Yes	No	LPG Storage and Propane Air Unit	Existing inlet adjacent to property, Kapalama Canal, and some runoff will pond onsite.	Diesel (3,000 gallon aboveground tank-outdoors)	Petroleum Hydrocarbons	No	No	No	No
THE PASHA GROUP, dba PASHA HAWAII	677 Ala Moana Blvd., Suite 700	Darren Lee	(808) 590-3617	Darren.Lee@Pashaneet.com	(808) 550-0023	Mar-05	None			H-06-2565	Loading/Unloading Household Crates	No	No	No	No	N/A	Loading/Unloading Household Crates	N/A	None	None	No	No	No	No
THE PHOENICIAN, LLC	91-573 Malakole Road	John Gomersall	(808) 478-8031	the.phoenician@thephoenician.net	808-682-1983	Jun-02	No	No	2E+08	GP2002-05-0317	Small boat repair facility	No	HI R20B748	HIR 000135201 CESQG	Yes	No	Small boat repair facility	Barbers Point Harbor	Oil and Grease, Lubrication oil leaks, copper, zinc	Solvents <200 gal; paint related material <	Yes	No	No	Yes
THE WEBE CORPORATION, LTD. (Subsidiary of Robert's Hawaii)	680 Iwilei Road, Suite 700,	Laki Sagiao	(808) 831-1564	laki.sagiao@robertshawaii.com	(808) 522-7866	1984	N/A	N/A	H-84-11	H-05-5208	Mooring of Alii Kai and Conduct Cruise Boat Operations	No	N/A	N/A	No	N/A	Mooring of Alii Kai and Conduct Cruise Boat Operations	Harbor	Oil and Grease	oil waste 4-55gal outdoor	No	No	No	No

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TRANSMARINE NAVIGATION CORPORATION	677 ALA MOANA BLVD., STE. 800																			N/A				
TROUBLE FREE CORP.	P.O. Box 8260,	Chris Boyles	(808) 864-8864	BOYLES@Commerce/glass.info	(907) 868-1116					H-03-2422	Boat Building	No	N/A	N/A	No	No	Boat Building	the lot next door		N/A	No	No	No	No
U.S. BUREAU OF CUSTOMS AND BORDER PROTECTION, DEPARTMENT OF HOMELAND SECURITY	300 Ala Moana Boulevard, Room 2-267	Jody Hardin, SCBPO	808-522-8001 X223	jody.hardin@dhs.gov	808-522-8005	1933	N/A	No		H-03-2419 H-97-1934	Inspection and Clearance of all vessels and foreign cargo crew	No	No	No	No	No	Immigration Processing, Enforcement, Detention/Removal	Harbor		N/A	No	No	No	No
U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL MARINE FISHERIES SERVICE	2570 Dole Street, (Site address: 1125B Ala Moana Blvd., Honolulu, HI 96814)	Robert Dollar	(808) 983-3702	robert.dollar@noaa.gov	(808) 983-8300	Jul-58	N/A	No		H-81-946	Non Commercial Scientific Research	No	No	Yes, we are a conditionally exempt small quantity generator and have no EPA ID Number.	No	No	Non Commercial Scientific Research	Storm Drain		Alcohol- 12 gallons (gallon container) [Indoors]; Gasoline- 60 gallons (jerry cans) [Indoors]; Formalin-	No	No	No	Yes (Attached)
UNITED EXCAVATION EQUIPMENT CORPORATION	653A Mapunapuna Street	Calvin Beppu	(808) 292-3725		808-836-5792		None	No		H-00-2209	Excavating Contractor	No	No	No	No	No	Excavating Contractor			N/A		No	No	No
UNITED FISHING AGENCY, LTD.	1131 North Nimitz Highway,	Daniel Otani	(808) 536-2148	ufahi@pixi.com	(808) 526-0137	Aug-04	N/A	422460	H-03-17	H-98-2037	Fish Auction	No	No	No	No	No	Fish Auction	Storm Water Run-off; Any water hose in apron area divereted to sanitary sewer.	Oils and Grease; Petroleum Hydrocarbons; Lubrication Oil Leaks	Gasoline- 5 gallons (Flammable Storage Cabinet-[Outside]; Hydraulic	No	No	No	Yes (Attached)
URS CORPORATION	615 Piikoi Street, 9th Floor,																			N/A				
VAN, KEVIN dba HI-SEA HAWAII FISHING SUPPLY	Pier 20, Warehouse #6,	Kevin Van	(808) 282-1452 (Cell) Bus-	hiseafishing@hawaiiintel.net	(808) 533-1405	Oct-98	N/A	N/A		H-97-1936	Selling Fishing Gears, Bait	No	N/A	No	No	No	Selling Gears, Bait	Not sure	N/A	N/A	N/A	No	No	No
WAIKIKI MARINE SALES	91-1217 Kaneana Street, Apt. G									H-87-1397										N/A				
WELSH, JR., DARRELL G., AIA	One Aloha Drive, Box 63	Darrell G. Welch Jr., AIA	(808) 585-8522	welchandweekds@hawaii.rr.com	(808) 585-8622	Aug-99	N/A	No		H-99-2134	Architecture	No			No		Architecture	No		N/A	Unknown	No	Unknown	No
WHITE PUBLISHING COMPANY	One Aloha Tower Drive, Box 137	Tetsuzo Nagashima	(808) 792-0000	tetsu@hawaiiactivities.com	(808) 599-3778	Apr-99	N/A	N/A		H-02-2332 H-99-2133	Internet	No	No	No	No	No	Maritime Magazine Publishing	Unknown	N/A	N/A	N/A	No	No	No

Honolulu and Kalaheo Harbors 2009 Tenant Self-Inspection Database

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Kapalama Military Reservation 2009 Tenant Self-Inspection Database

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1726, INC. dba MARK GLEN AUCTIONS	4224 Waialae Avenue, Suite 334,	Mark Glen	(808) 223-4212	mark@markglenauctions.com	(808) 596-4664	Jun-03	None	N/A		H-00-204	Auction	No	No	No	No	No	N/A	Auction	N/A	N/A	No	Unknown	No	No	No	
AKANA TRUCKING, NC.	209 Hao,	Kevin M Akana	845-9825	akanatrucking@hawaiiantel.net	(808) 845-9342	Oct-94	N/A	No		DOT-94-64	Equipment hauling	No	No	No	No	N/A		Equipment hauling		N/A	N/A	No	No	No	No	
ALOHA LIQUEURS, NC	5 Sand Island Access Road, Box 118,	Dave Fazendin	(808) 841-5787		(808) 847-2903	Jun-96	None	N/A		DOT-94-90	Distilled Spirits	No	No	No	No		N/A	Distilled Spirits	No	N/A	No	No	No	No	No	
ALUMINIUM SHAKE ROOFING, INC.	5 Sand Island Access Road, Building 919-B,	Fred Rehm	847-8885	fredrehm@hawaiiantel.net	(808) 847-8009	Sep-94	None	N/A		DOT-94-86	Metal Roofing/Warehouse and Office	None	No	N/A	No	No	N/A	Metal Work	stormdrain			No	No	No	No	
AMAZON CONSTRUCTION COMPANY, INC.	5 Sand Island Access Road, Box 139,	duston onaga	841-6595																							
ANCHOR CONSTRUCTION MANAGEMENT CORP.	P.O. BOX 359	David B. Thielem	(808) 306-0826	davidt@pixi.com	(808) 842-0579	1997	None	No		H-99-184	Contractor	No	No	No	No	No		Contractor	?	None		No	No	No	No	
ARA CONTRACTING	1433 Kewalo Street #304,	Kenneth Park	(808) 387-6108	aracon3@yahoo.com	(866) 401-9114	Nov-96	None	N/A		DOT-96-144	General Building Contractor	No	No	No	No	No	N/A	Storage	No	N/A	No	N/A	No	No	No	
ARITA/POULSON GENERAL CONTRACTING	P.O. Box 1035	Steve Jorgensen	(808) 368-4764	Steve@aritapoulson.com	(808) 871-6756	Oct-05				HAR-PM 372.06 Previous H-98-2101 DEP-H 8696.06	General Construction	No	No	No	No	No		General Construction	Surface Flow	lubrication oil leaks	misc. paints 14.5 gal	No	No	No	No	
ATLANTIS SUBMARINE	1600 KAPIOLANI	Jon Chapman	(808) 832-6601	jchapman@atlantisadventures.com	(808) 832-6601	Apr-00		4489		H-05-2516	Submersible and Surface Vessel Maintenance	No	No	No	No	No	No	Submersible and Surface Vessel Maintenance	Kapalama Basin	N/A		No	No	No	Yes	
BCP CONSTRUCTION COMPANY OF HAWAII, NC.	5 Sand Island Access Road, Box 112,	Timothy S. Burke	808-841-4574 x11	tburke@bcpconstruction.com	(808) 841-1645	Oct-00	None	N/A		H-02-214	Construction	No	N/A	N/A	No	N/A	N/A	Construction	Kapalama Military Storm Drain Located on the North East Corner of Building 925	N/A	No	No	No	No	No	
BROOK NS BOATWORKS, LTD.	5 Sand Island Access Road, Unit 117,	Gary Brookins	841-2525	brookinsboats@hawaiiantel.net	(808) 841-2525	Apr-01				H-03-2396	Boat Building and Repair.	No	No	No	No	No					acetone 1 drum, laminating resin 1 drum, misc. paints 10-15 gallons	No	No	No	No	
BURL NGTON ENVIRONMENTAL, NC. c/o PSC INDUSTRIAL OUTSOURCING, INC.	91-127 Malakole Street,	Otto Audirsch	808-845-0032	oaudirsch@pscnow.com	808-845-0103	1995	N/A	N/A		DOT-94-77	10-Day Hazardous Waste Transfer Facility	No	N/A	No	No	DOT PHMSA		10-Day Hazardous Waste Transfer Facility	Drain	None	None	No	No	N/A	Yes (Attached)	
CB TECH SERVICES	Sand Island Access Road, Box 102	fay	848-0060							DOT-95-108																
CAN-AM COATING, NC.	98-1329 Akaaka Street,	Perry Radtke	(808) 429-9494	canam@hawaii.rr.com	(808) 484-9292	Feb-09	None		500153	H-06-2521	Concrete restoration and Coating	No	No	No	No	No		Concrete restoration and Coating		No		No	No	No	No	
CENTRAL PACIFIC DISTRIBUTING, INC.	5 Sand Island Access Road, Box 127,	Brian Oda	(808) 848-0787	cpd.hi@hawaiiantel.net	(808) 848-0789	Summer 1996	None	No		DOT-95-107	Flooring Distributor	No	No	No	No	No	N/A	Flooring Distributor	N/A			No	No	No	No	
CERTIFIED SHEETMETAL	1544 Mahiole Street,	Michael Yamauchi	(808) 372-3918	mmy@hawaii.rr.com	(808) 842-1747	Jan-88	None	N/A		H-99-187	Sub Contractor for Sheet Metal	No	None	No	No	No	N/A	Sub Contractor for Sheet Metal	?	Lubrication Oil Leaks,	Gasoline- 5 gallon container on shelf	N/A	No	No	No	No
CHASE SALES & DISTRIBUTION, INC.	5 Sand Island Access Road, Box 147,	Hank Hatakenaka	(808) 842-4588	hank.cs@hula.net	(808) 848-8757	Jun-96	None	N/A		DOT-97-150	Wholesaler	No	No	No	No	No	N/A	Wholesaler	None	N/A	N/A	No	No	No	No	
City and County of Honolulu HNL Police Dept. Attn: Juvenile Services, P A L.	801 South Beretania St.	Lieutenant J. Averell Peddro	(808) 529-3881 (808) 228-5295	jpedro@honolulu.gov	(808) 529-3960	Mar-98	DNA	No	H-203		Juvenile Crime Prevention Unit	No	No	No	No	No		Storage	Drainage System	Oil and Grease		No	No	No	Yes	
CLASSIC TILE CORPORATION	P.O. Box 30568,	Richard Racoma	841-6893 5 Sand Island Access Road Unit 107	Kamalu1@msn.com	(808) 841-8332	Dec-93	None	N/A		DOT-93-13	Tile Installation Warehouse	No	No	No	No	No	N/A	Construction Warehouse	drainage	N/A	N/A	N/A	No	No	No	
CONCRETE CORING COMPANY OF HAWAII, NC.	99-1026 Iwaena Street,	John Neff / Nathan Sabey	(808) 488-8222 (808) 330-7516	jneff@concretecoringhawaii.com or nates@concretecoringhawaii.com	(808) 487-6679	Aug-00	None	N/A		H-02-2355 / H-00-2235	Contractor Yard Space	No	No	No	No	No	N/A	Contractor Yard Space	surrounding area	Lubrication oil leaks	N/A	N/A	No	No	No	

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CONTAINER STORAGE COMPANY OF HAWAII	2276 Pahouniu Drive,	Frank White	841-5555 2276 Pahounui Drive	fpwhite@aloha.com	(808) 845-5552	Jun-97	None	N/A		H-01-211	Store Ocean Containers	No	No	No	No	No	N/A	Store Ocean Containers	ground	N/A	N/A	N/A	No	No	No	
CONTROL TECH, LLC	P.O. Box 30992,	Melvin Tsue	(808) 847-7490	ctechllc@hawaiiintel.net	(808) 853-2461	Jan-01	None	N/A		H-00-196	Electrical Subcontractor	No	N/A	N/A	No	No	N/A	Electrical Subcontractor	Parking Lot	N/A	N/A	No	Unknown	No	Yes	
CONVENTION SET BUILDERS, INC.	1040 13th Avenue,	Eric Van der Voert	808-216-1507	csbinc@hawaii-rr.com	(808) 732-3215		None	N/A		DOT-98-177	Convention Set Builders	No	No	No	No	No	N/A	Convention Set Builders	Street Drain	N/A	Car Oil 26 qts, Pater Paint 9 gal	No	No	No	No	
CUSTOM BILT METALS	5 sand island access road. Building 928	Thomas Frame	808-845-1806	tom.frame@custombilm Metals.com	808-845-2702	May-98		No			Metal Roof and Gutter Distributer	No	No	No	No	No		Metal Roof and Gutter Distributer	75 yards south of main entrance	oil and grease, lubrication oil leaks, nonhalogenated solvents	denatured alcohol 2 qt indoor, prestone 1 gal indoors, zep degreaser 1 gal indoors	No	No	No	No	
DIVISION 8, INC.	5 Sand Island Access Road, Box 126,	Brad Granger	808-845-8999	division8@808glass.com	808-843-0584	Aug-96				DOT-96-142	Glass Contracting	No	No	No	No	No		Glass Contracting				No	No	No	No	
DONAHUE, SHANNON dba PARADISE EQUIPMENT	P.O. Box 356,	Shannon Donahue	808-330-1370	shandon@aloha.net		5 years					Storage	No	No	No	No	No		Storage	Drain, Parking lot	Lubrication oil leaks	None	Yes, garden h	No	No	No	
DON'S MAK KI	1406 South Beretania Street,	Nora Gau (Leonora)	(808) 949-3787	donsmakiki@yahoo.com	(808) 944-1049	1996	N/A	812930		H-98-170	Parking of Tractors and trailers	No	N/A	N/A	No	No	N/A	Parking of Tractors and trailers	ground surface runoff	Oil and Grease,	None	No	No	No	Yes (Attached)	
EAST WEST MARKETING, INC.	95-1101 Wikao Street,	Melody G. Calisay	(808) 224-9535	mcalisay@aol.com	808-848-8278	Jun-04	None	N/A			Marketing	No		No	No	No	N/A	Marketing	Kewalo Basin	None	None	N/A	No	No	No	
FIVE "C" CORP dba WESTERN OVERHEAD DOORS	80 Sand Island Access Road, #226,	Eric Carlborn	832-0555 80 Sand Island Access Road Bay 226	ericc@lava.net	808-848-1694		None			H-97-158	Residential and Commercial Door Installation & Repair	No	No	No	No	No	N/A	Residential and Commercial Door Installation & Repair	Drain	N/A	N/A	N/A	No	No	Yes (Attached)	
FIVE STAR ROOF NG, LLC	5 Sand Island Access Road, Box 165,	William Hale	(808) 845-4588	admin@5starroofing.net	(808) 848-7869	Apr-00	N/A	N/A		H-00-193 H-08-2630	Roofing	No	N/A	No	No	No	N/A	Roofing	Gutters have been installed so water drains to exterior ground area.	N/A	Gasoline 4 - 5 gal.	No	No	No	No	
FUELMAN, INC.	P.O. Box 29249,	Michael P. Rossman	(808) 842-3835	fuelman.hawaii@hawaiiintel.net	(808) 842-0316			5172		DOT-94-52	Distributor	Yes	No	No	No	No		Distribtion	Never been advised	Oil and Grease	Lube, oil in drums	No	No	No	No	
G.W. KILLEBREW CO., NC.	2276 Pohonui Drive,	shannon lono	(808) 841-5819	david.medieris@gwkillebrew.com	(808) 842-058	Jun-05	None	N/A		DOT-94-79	Building Product Supply	No	No	No	No	No	N/A	Building Product Supply	Ocean		N/A	No	No	No	No	
GLOBAL SPECIALITY CONTRACTORS, INC.	5 Sand Island Access Road, Box 159,	Marvin G. Krael	(808) 843-8881 (808) 843-8882	globalspecialty@hawaiiintel.net	(808) 843-8883		None	N/A		H-98-173		No	No	No	No	No	N/A		Unknown	Oils and Grease; Lubrication Oil Leaks	N/A	No	No	No	No	
GMB VINYL, INC. dba GMB VINYL FENCING	5 Sand Island Access Road, Box 151,	Javene K. Cabebe Galavio	842-5545	gmbvinylinc@aol.com	(808) 842-5134	Jul-97	None	N/A		H-98-163	Vinyl Siding	No	No	No	No	No	N/A	Vinyl Siding	Honolulu Harbor	oil and grease, lubrication oil leaks	N/A	Unknown	No	No	No	
GREAT PACIFIC WHOLESALE CO., LLC	P.O. Box 31062,	Todd Patterson	(808) 395-8048	gpwc@att.net	(808) 395-8041	Sep-03	None	N/A		H-03-2399	Wholesale Footwear to Retails	No	N/A	No	No	No	N/A	Wholesale Footwear	N/A	N/A	N/A	No	No	No	No	
HAJALEE NC, dba KAL HI QUEEN'S SUPERMARKET	1010 Kaili Street	Jason Yang, Kevin Lee	(808) 841-8699		(808) 841-2599	Aug-07		N/A		H-07-2592	Storage	No	N/A	No	No	No		Storage	N/A	N/A	N/A	No	No	No	No	
HARDY CONSTRUCTION CO., NC.	2410 A Makiki Heights Drive,	Melvin R. Hardy	(808) 845-0267		(808) 845-0269	Mar-02	None	No		H-02-216	Contracting- General Building	No	No	No	No	No	N/A	Contracting- General Building	Parking Area (rainwater-roof)				No	No	No	Yes
HAWAII EXPLOSIVES & PYROTECHNICS, NC.	P.O. Box 1244,	Donald Pascual	808-968-0600	hepinc@hipyro.com	808-968-0800	Feb-03	N/A	7389		H-02-2385	Storage of floating platform on trailer	No	No	N/A	No	N/A		Storage of floating platform on trailer		N/A		No	No	No	No	
HAWAII PACIFIC PLUMBING SUPPLY	1930 B Auiki Street,	Mike Savalinaea	808-842-5600	mike@hpps-hawaii.com	808-842-5900	1985	N/A	N/A		H-03-2414	Wholesale plumbing supply distribution	No	N/A	No	No	N/A		Wholesale plumbing supply distribution		None	None	No	No	No	No	
HAWAII TOYS & G FTS	1547 Kokea Street,	danny ung	292-2023		841-7112					DOT-96-133																
HAWAII TRANSFER COMPANY, LTD.	P.O. Box 665,																									
		Joseph Aguon	677-3111 x134	josephaguon@hawaiitransfer.biz	441-7179	Nov-98	N/A		H-98-9		Trucking and Warehousing	No	H R80B40	No	No	No			Honolulu Harbor	oil and grease; petroleum hydrocarbons; lubrication oil leaks	Diesel - varies; used oil 300 gal; used antifreeze 55 gal outdoor	No	No	Yes	Yes	
HIROSE ELECTRIC	P.O. Box 30448,	Scott Hirose	(808) 848-8830	hiroseelectric@aol.com	(808) 845-6511	May-95	None	N/A		DOT-96-132	Electrical Contractor	No	No	No	No	No	N/A	Electrical Contractor		Oil and Grease, Parked vehicles	N/A	No	No	Yes	No	
HI-TEC ROOFING, NC.	5 Sand Island Access Road, Box 157,	Cynthia Jeffers	(808) 841-7663	aahitec@pixi.com	(808) 841-5274	Apr-94	None	238160		DOT-94-59	Roofing Contractor	No	No	No	No	No	N/A	Office/Warehouse and Sheetmetal Shop	N/A	N/A	N/A	N/A	No	No	No	

Kapalama Military Reservation 2009 Tenant Self-Inspection Databse

Tenant	Address	Point Of Contact	Telephone	E-mail	Fax	Tenant Since Month/Yr	Sub Tenants	SIC	Lease Number	Permit Number	Primary Use and Activity of Facility	Oil Products Yes/No	NPEDES Permit	Hazardous Waste Generator Yes/No	SARA III Yes/No	Other Federal Permits	Land Tenancy Area	Activities Conducted	Storm Water Discharged to	Identification of Potential Pollutant Sources	Chemicals Used on Site	N/An-Storm Water Discharges	Run-off during Dry Weather Yes/No	Floors/Decks located in Chemical Storage Areas	Facility Plans Drawings Yes/No
HONOLULU COMMUNITY ACTION PROGRAM, INC. aka OAHU HEAD START	33 South King Street, Suite 300	John Park (Facilities Manager)	(808) 843-4333 (808) 277-3716	johnp@hcapweb.org	(808) 847-2302	Oct-92	None	624410		DOT-93-9	Main Office for Preschool/ Supply Warehouse	No	No	No	No	No	N/A	Office/Warehouse	Evaporation	lubrication oil leaks	Paints (14- 5 gallon cans); Clorox (60 - 1 gallon); Lemon Q (60 - 1 gallon)	N/A	No	No	No
HOOK UP TOW NG, NC.	1843 Liliha Street, Apt. B,	mary jo rivera	486-4665	hookuptowing@aol.com	808-533-4665		No			H-03-2398	Towing	No	No	No	No	No		Towing	The water passes down the senter of our yardspace and into Don Makiki's yard			No	No	No	No
HPC FOODS, LTD.	288 Libby Street,	Bernie Bernales	848-2431 ext. 208	bernie@hpcfoods.com	(808) 845-5155	Jan-02	N/A	N/A		H-02-2318	Parking Area for Delivery Vehicles	No	No	No	No	No	N/A	Electrical Marine Work	Storm sewer	Lubrication Oil Leaks (Vehicles)		No	No	No	No
NDUSTRIAL CHEMICAL & LUBRICANTS, INC.	P.O. Box 30173,	Patricia Shinsato	(808) 842-4116	icl@clearwire.net	(808) 841-8400	Jan-94	N/A	2842		DOT-93-12 H-06-2542	Chemical distributor	No	No	No	Yes			Chemical distributor	Storm drain		Sodium Hypochlorite 0-24 Drums, 55 gallon plastic drums, Indoor	No	No	Yes	Yes (Attached)
INTERNATIONAL EXPRESS, INC.	P.O. Box 797,	David Hinchey	(808) 841-6005	davidh@interexp.com	(808) 841-2083	Jan-94	None	N/A	H-99-7	H-98-171	Container Unloading and Truck Parking	No	No	No	No	No	N/A	Container Unloading and Truck Parking	Drain in front of Ewa end of Building	Oils and Grease	N/A	N/A	No	No	Yes (Attached)
JET PRO, INC.	486 Cabot Road,	Margaret Guerrero, Exceutive Administrator	845-8826	margarita@jetproinc.com	(808) 845-8786 650-794-0159	Jun-01	None	N/A		H-00-202	Clerical	No	No	No	No	No	N/A	Sales Office	None	N/A	N/A	No		No	No
JOSLIN SERVICE CORPORATION	349 Hanakai Street,	Don D. Freeman	526-1790	info@joslinservice.com	808-871-4348	1997	N/A	N/A		DOT-95-111	Construction (Contractor)	No	No	No	No	No		Construction (Contractor)	Kapalama Storm Drainage System	Lubrication oil leaks	Hydrolic Oil 50 gallons indoor	No	No	No	Yes (Attached)
KAPALAMA FEDERAL CREDIT UNION	P.O. Box 1149,	Marian M. Kiyuna	845-9069	kapalama@fcu-hawaii.com	(808) 845-9069	Jan-51	None	N/A		DOT-93-2	Savin deposits and loans	No	No	No	No	No	N/A	Credit Union	Unknown	N/A	N/A	N/A	No	N/A	No
MAUGA-OLIVE SAMOAN ASSEMBLY OF GOD	P.O. Box 4114	Setu Tiafane	(808) 778-0127 (808) 448-4434	setu.tiafane@hickam.af.mil	(808) 448-2654	Jan-02				DOT-97-152	Church	No	No	No	No	No		Church				No	No	No	Yes
MILITARY HQ	P.O. Box 30647,	Sandii Kamaunu	843-0189	milhq@aloha.com	(808) 843-0295	Sep-94	None	N/A		DOT-95-101	Retail Warehouse Storage	No	No	No	No	No	N/A	Retail Storage	Unknown	N/A	N/A	N/A	No	No	No
MILLER INDUSTRIES MLC INT'L LLC, dba PERFORMANCE LANDSCAPE	5 Sand Island Access Road, Box 105,	Bill Miller	848-0855	millerindustries@cs.com	(808) 841-0262	1991	None	N/A		DOT-94-87	Sale of Automotive Repair Equipment	No	N/A	N/A	No	No	N/A	Automotive Repair Equipment	Honolulu Harbor	oil and grease, lubrication oil leaks	32 hydraulic oil 15-20 5's, palletized indoor	N/A	No	No	Yes
MYSUNG SOO HAN dba HAN'S ELECTRIC	P.O. Box 10459	Matty Lyum	808-282-5496	performanceLS@hotmail.com	(808) 848-0828	Jun-06				H-06-2541	Landscaping	No	No	No	No	No		Landscaping	No open yard space	Attached	Attached	No	No	Yes	Yes (Attached)
NAKAMURA, RODNEY S. WELD NG	1617 Keeaumoku Street, #501,	Myun Soo Han	808-841-6688		808-841-1088	Apr-03	None				Office and Stoarge	No	No	No	No	None		Office and Stoarge	underground drained	Copper	None	unknown	No	No	No
NEWPORT PACIFIC CAB NETS, INC.	2433 Rooke Avenue,	Rodney S. Nakamura	(808) 228-2551			Jul-99	None		H-99-188	Acct# 500053	Welding, Fabrication and Repairs	No	No	No	No	None	N/A	Welding, Fabrication and Repairs	StormDrain	No		No	No	No	Yes (Attached)
PACIFIC COMMERCIAL SERVICES, LLC	206-C Mokauea Street,	Stanley Yuen	(808) 486-6008	npcabinnets@aol.com	(808) 841-6668	Jan-03	None	N/A			Cabinet Distribution	No	No	No	No	No	N/A	Cabinet Distribution	Unknown	None	None	NO	No	N/A	No
	P.O. Box 235117,	Jingo Chang	(808) 545-4599	jingbochang@aol.com	(808) 845-9773	Dec-04	None	8999		H-02-223 / H-04-2469	Hazardous Waste Transporter / Environmental services	No	No	No	No	No	N/A	Hazardous Waste Transport	Storm Drain at KMR	N/A	N/A	N/A	No	No	Yes Attache
PACIFIC DIVERS EQUIPMENT	5 SAND ISLAND ACCESS ROAD, BOX 140																								
PACIFIC RIM TRADING GROUP, LTD.	5 Sand Island Access Road, Box 140	Thomas Coyne	(808) 847-4455	tom@blue-fin.com	(808) 847-4433	Jan-05	None	No	500156	H-07-2576	Wholesale distribution	No	No	No	No	No		Wholesale distribution	N/A	No		No		No	No
PARADISE CRUISE, LTD.	5 Sand Island Access Road, Box 121,	Marc Rubenstein	(808) 832-6261	mrubenstein@royalstarhawaii.com	(808) 832-6260	1993	None	4141- Local Bus Service		DOT-93-22	Tranportation Bus Service	No	No	No	No	No	N/A	Tranportation Bus Service	Storm Drain/ Evaporation	Oils and Grease; Lubrication Oil Leaks	Diesel-2000 gal outdoor doublewall fireproof tank, oil-200 gal indoor double contained totes	No	No	Yes	Yes (Attached)
PBC WHOLESALERS, NC.	5 Sand Island Access Road, Box 116,	Alan Nozawa	(808) 842-6565	pbchawaii@aol.com	(808) 842-6466	Jun-94	None	N/A		DOT-94-76	Wholesale School & Office Supplies	No	No	No	No	No	N/A	Wholesale School & Office Supplies	Storm Drain	N/A	N/A	N/A	No	No	No

Kapalama Military Reservation 2009 Tenant Self-Inspection Databse

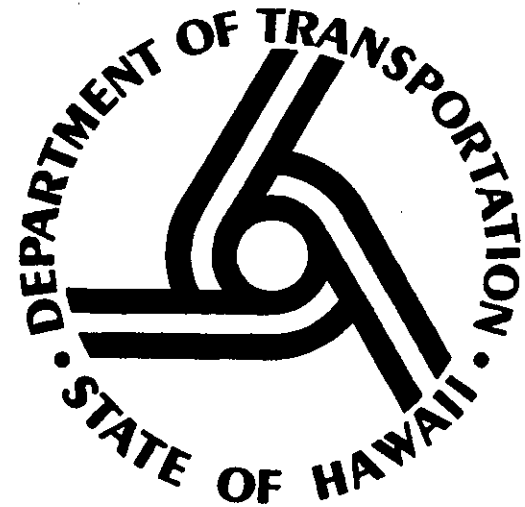
Tenant	Address	Point Of Contact	Telephone	E-mail	Fax	Tenant Since Month/Yr	Sub Tenants	SIC	Lease Number	Permit Number	Primary Use and Activity of Facility	Oil Products Yes/No	NPEDES Permit	Hazardous Waste Generator Yes/No	SARA III Yes/No	Other Federal Permits	Land Tenancy Area	Activities Conducted	Storm Water Discharged to	Identification of Potential Pollutant Sources	Chemicals Used on Site	N/An-Storm Water Discharges	Run-off during Dry Weather Yes/No	Floors/Decks located in Chemical Storage Areas	Facility Plans Drawings Yes/No
PRIME BUILDERS	411 Hobron Lane, #912,	Damian Roncevich	(808) 371-5086	primebuild@aol.com	(808) 942-8110	Nov-96	None	N/A		DOT-96-146	Construction Contractor	No	No	No	No	No	N/A	Construction Contractor	on ground no visible storm sewer in vicinity	N/A	Latex Paint (25 Gallons) [Indoors], Stain 2 gallon indoors Household cleaners < 1 gal indoor	N/A	No	Yes	Yes
PROJECTS ENTERPRISES, INC.	5 Sand Island Access Road, Box 150,	Todd Lawi	(808) 848-1900	tlawi@projects808.com	(808) 848-1960	Mar-03	None	N/A		H-03-2410	General Contractor	No	N/A	No	No	N/A	N/A	General Contractor	N/A	N/A		unknown			No
PROTECH ROOFING, LLC	P.O. Box 31226,	Charles E. Spicgel	808-845-1300	chassp@aol.com	808-845-1300	Jul-04	None	No		H-03-2407	Roofing Contractor/Storage	No	No	No	No	No		Roofing Contractor/Storage	None			No	No	No	No
QUICK MOVE, INC.	155 Sand Island Access Road	Eugene Fontanilla	808-486-7223	quickmove1@hotmail.com	808-422-9998	Oct-95	None			H-98-162	Storage	No	No	No	No	No		Storage	None	oil and grease, alkaline waste		No	No	No	No
RDH TRANSPORTATION & LEASING	5 Sand Island Access Road, Box 121,	Marc Rubenstein	808-832-6261	mrubenstein@royalstarhawaii.com	808-832-6260	2006	N/A	4141-Local Bus Service			Transportation-Passengers	No	No	No	No	No		Transportation-Passanger	Evaporation	None		No	No	No	Yes
REEF DEVELOPMENT OF HAWAII, INC.	P.O. Box 1055	Frank A. Machado	808-488-1228 x114	freank@reefdevelopment.com	(808) 487-9196	Apr-94	None	No		DOT-94-69	Storage - tools and equipment	No	No	No	No	No	N/A	Storage - tools and equipment	around Building	Lubrication oil Leaks	N/A	No	No	No	No
ROBERT MARCOS, NC.	5 Sand Island Access Road, Box 143,	Deborah Marcos	(808) 841-1123	rmiinc@msn.com	(808) 841-0765	Dec-99	None	N/A		DOT-96-141	General Contractor	No	No	No	No	No	N/A	General Contractor	Unknown	None	None	No	No	No	No
ROBERTO'S, INC.	5 Sand Island Access Road, Box 145,	Mr. Peter Siu	808-845-6634	robertosinc@hotmail.com	(808) 842-6143	Aug-99	None	N/A		DOT-96-131	Wholesale Distributor	No	No	No	No	No	N/A	Wholesale Distributor	Ground Surface	N/A	N/A	N/A	No	No	No
RSI ROOFING AND BUILDING SUPPLY	1081 Makepono Street,	Ritchie Mudd	(808) 255-9995	rsiritchiemudd@aol.com	(808) 848-8221	Jan-01		5033	H-06-2526 TMK# 1st / 1		Wholesale Building Materials	No	No	No	No	No	N/A	Roofing and Building Supply	Unknown	N/A	N/A	N/A	No	No	No
SALASSA, FRED	1845 Auiki Street,	Fred Salassa	(808) 842-9133 ext 102	fred@FFFhawaii.com	808-842-1184	Jan-92	Triple F Distributing, Inc.	N/A	H-99-6		Paper wholesaler	No	No	No	No	No	N/A	Paper Wholesaler	Kapalama Storm Drain System	CO2-gas	N/A	N/A	No	No	Yes Attached
SCHOFIELD FEDERAL CREDIT UNION	P.O. Box 860669,	Larry Chun	(808) 624-9884 (808) 845-9070	main@schofieldfcu.org	(808) 624-7774		None	N/A		DOT-93-3	Financial Service	No	No	No	No	No	N/A	Credit Union	N/A	N/A	N/A	N/A	No	No	No
SERVCO PACIFIC, NC.	PO Box 2788		(808) 564-1327		(808) 533-1369	Dec-05				H-05-2513	Vehicle Storage	No	No	No	No	No		vehicle Storage	Unpaved land	Lubrication Oil Leaks		No	No	No	No
SHIN WOO CORPORATION	P.O. Box 30054,	David Chang	(808) 853-1122	todayidchang@yahoo.com	(808) 441-9994	Jun 2000 (estimate)	No	No		H-02-219	Wholesale of Juice Products	No	No	No	No	FDA 11584645864	N/A	Wholesale Juice	Not Sure	N/A	N/A	No	No	No	No
SOUTHERN FOODS GROUP dba MEADOW GOLD	925 Cedar Street,	Jason Fujimoto	(808) 949-6161 (808) 944-5978	jayson_fujimoto@deanfoods.com	(808) 944-5901	May-08	No	No			Deliver Dairy Products	No	No	No	No		N/A			No	No	No	No	No	No
SUEMATSU, NORA dba UNITED EQUIPMENT	P.O. Box 29208,	Gary Supoaby	(808) 847-3344			Jan-95	None			DOT-95-113	Truck repair	No	No	Oil	No	No	N/A	Truck repair	into sewer drain		Engine Oil, 1 Case, indoor and Transmition Oil, 1 Case, Indoor, Antifreeze 2 bottles, indoor	No		No	No
SUN CHONG COMPANY, LTD.	5 Sand Island Access Road, Box 148,	Kevin Lam	(808) 381-2495 808-383-1756		(808) 841-6777	Jan-92		No		DOT-94-71	American & Chinese Grocery	No	No	No	No	No		None		No	No	No	No	No	No
TAI POLYTHENE OF HAWAII, NC.	60 Laimi Road,	Tai Lee	(808) 848-5591 (808) 371-6617		(808) 848-0009	1997	None	N/A		DOT-97-148	Distributes Plastic and Paper Products	No	No	No	No	No	N/A		None	N/A	N/A	No	No	No	No
TBC, LLC	1172 Lunaai street	patrick Casey	292-7468	pcasey@hawaii.rr.com		Apr-06	None				Hobby Garage/Shop	No	No	No	No	No					Motor Oil < 1 gal, brake fluid <1 gal, Spray Paint < 1 gal	No	No	No	No
THE CUSTOM CO., NC	205 Kalihi Street,	Milton Ebesn	(808) 845-8811	milton@thesustomcompanyhawaii.com	(808) 845-8811	Feb-04	N/A	N/A			T-shirt processing and Storage warehouse	No	No	N/A	N/A	N/A		T-shirt processing and Storage warehouse	?	N/A	N/A	No	No	N/A	No
THE SUSSEX CO., NC.	2270 Makiki Heights Drive,	Tony Sussex	(808) 537-3001; (808) 285-2836	tonysussex@hawaii-rr.com	(808) 536-5309	Jan-96	None	N/A		DOT-96-128	Storage	No	No	No	No	No	N/A	Storage	facility Storm Drains	None	None	No	No	No	Yes (Attached)
THEOPHYLLUS, INC. dba KANO TRUCK NG	224 Mokauea Street,	Wayne Kano	(808) 848-8844	kanotrucking@hawaii.rr.com	(808) 848-4844	Apr-02	N/A	484110		H-02-218	Storage	No	No	No	No	No	N/A	Storage	Ground	None	None	N/A	No	N/A	Yes (Attached)

Kapalama Military Reservation 2009 Tenant Self-Inspection Databse

Tenant	Address	Point Of Contact	Telephone	E-mail	Fax	Tenant Since Month/Yr	Sub Tenants	SIC	Lease Number	Permit Number	Primary Use and Activity of Facility	Oil Products Yes/No	NPEDES Permit	Hazardous Waste Generator Yes/No	SARA III Yes/No	Other Federal Permits	Land Tenancy Area	Activities Conducted	Storm Water Discharged to	Identification of Potential Pollutant Sources	Chemicals Used on Site	N/An-Storm Water Discharges	Run-off during Dry Weather Yes/No	Floors/Decks located in Chemical Storage Areas	Facility Plans Drawings Yes/No
TROPICAL J'S, INC.	5 Sand Island Access Road, Box 122,	Gary C. Barnes	(808) 848-0888	gary@tropicaljs.com	(808) 847-3893	Apr-93	None	N/A		DOT-94-80	Manufacturing cushions, awnings, umbrellas, shade, and curtains	No	No	No	No	No	N/A	Manufacturing	sidestreet	N/A	N/A	No	No	No	No
TROPICAL RAIN GUTTER AND ROOFING, INC.	5 Sand Island Access Road, Box 141,	kim Beattie	(808) 847-0030 (808) 842-1563	info@tropicalroofandgutter.com	(808) 842-1563	9/1997 before DOT took over; May 2002- when DOT took over lease	None	No	H-02-217	H-02-217	Roofing and Raingutter Sales/Installation	No		No	No	No	N/A	Roofing and Raingutter Sales/Installation	?	Oil and Grease	None	No	No	No	No
UNIROC MARBLE & Granite	5 Sand Island Access Road, Box 101,	Jonathan N. Ing	(808) 845-5577	uniroc@yahoo.com	(808) 845-5566	Sep-93	None	N/A		DOT-95-118	Wholesaler of Oriental Goods	No	No	No	No	No	N/A	Wholesaler of Oriental Goods	MKMR facility drainage outlets	None	No	No	No	No	No
UNITEK TECHNICAL SERVICES, INC.	P.O. Box 29177,	Frank Schumann	808-479-6914	frank@unitekhawaii.com	(808) 845-8305	Jun-03	None	N/A		H-99-182	Insulation Contracting	No	No	No	No	No	N/A	Insulation Storage	I have no idea. Whatever stormdrains in the common areas I assume, Our warehouse is used for storage of insulation Materials	None	None	N/A	No	No	No
UNIVERSAL WHOLESALER ASSOCIATION, NC.	P.O. Box 160927,	Patrick Chan	(808) 842-7427	pat@uw808.com	(808) 848-8828	Mar-03	None	N/A		H-03-2400	Wholesaler / Distributer	No	No	N/A	No	No	N/A	Wholesaler / Distributer	not usre	N/A	N/A	No	No	No	No
VIKING V., INC.	309 Iihau Street,	John Myking	(808) 254-6228	mykingj001@hawaii.rr.com	(808) 254-1195	Jan-06	N/A	No		H-97-1971, H-05-2515	Storing Fishing Gear (Lobster Traps)	No	No	No	N/A	N/A	N/A	Storing Fishing Gear (Lobster Traps)	Into the parking lot, then to the city sewer?? (not sure)	N/A		N/A	No	No	No
Y. FUNUNGA PRODUCTS, LTD.	5 Sand Island Access Road, Box 125,	Neal M. Otani	(808) 841-1555 (808) 479-0129	neal@yfukunaga.com notani55@gmail.com	(808) 847-1555	Jan-03	None	N/A		H-02-2353	Produce Wholesaler	No	No	No	No	No	N/A	Produce Wholesaler	Ground and Stormdrain	Lubrication Oil Leaks	N/A	No	No	No	No
YIM, DONALD T. dba RAINBOW CRAFT COMPANY	5 Sand Island Access Road, Box 153,	Donald Yim	(808) 841-3911	rainbowshell@hawaiiantel.net	(808) 732-8868	Apr-98	None	N/A		H-03-2406	Import Wholesale Gifts	No	No	No	No	No	N/A	Import Wholesale Gifts	N/A	None	N/A	No		N/A	No

APPENDIX F
EDUCATIONAL MAILINGS

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION**



USED OIL

사용유

DAÀU CUỖ

**CAÙC QUY TAÉC ÑIEÀU HAØNH HAÏ UY DI (HAWAII
ADMINISTRATIVE RULES, hay HAR)**

**HAR §19-42-126 Nghieâm caám vòút boù chaát thaùi bõøa baõi hay
gaây oâ nhieãm caùc vuøng ñaát.**

(b) Khoâng ñoõïc xaù boù daàu, chaát pheá thaùi coù laãn daàu, caén
hoùa chaát hay caùc hoïp chaát hyñrocabon khaùc trong vuøng ñaát
thuөөc Tieáu Bang ngoaïi troø ðu nhõõng ñu thu hoài ñoõïc thieát keá
ñieéc bieát. Khoâng ñoõïc boù nhõõng thõu naøy vaөo hoaëc ñeá caïnh
thuөөng raùc tieáu chuaán hoaëc ðu baát coù choã naөo khaùc trong
vuøng ñaát thuөөc haùi caùng. Hình phaiít, bao goàm nhõõng khoâng
haïn cheá vieác thu hoài giaáy pheùp neo ñaàu vaө quyөөn sõu ñuõng
caùc co sõu.

**HAR §19-42-127 Nghieâm caám vòút boù chaát thaùi bõøa baõi hay
gaây oâ nhieãm nõõuc.** Khoâng ñoõïc ñaét, neùm, boù hoaëc xaù, hay
laøm cho ngõõõ khaùc ñaét, neùm, boù hoaëc xaù baát kyø chaát
thaùi naөo, hoaëc chaát khí, chaát loùng hay vaát lieäu raén khaùc
laøm cho vuøng nõõuc bõ maát veù myõ quan, ñoác haïi hoaëc taùc
haïi khaùc nhõ gaây baát loïi cho sõuc khoùe coäng ñoàng hay taïo ra
moái nguy hieãm haøng haùi xuoáng vuøng nõõuc cuõa baát coù haùi
caùng naөo, vuøng nõõuc soäng ngoaï hay treân bõø thuөөc Tieáu
Bang. Khoâng ñoõïc xaù caén buøn daàu, chaát pheá thaùi coù laãn

daàu, daàu nhieân lieäu hay maát mía hoaëc troïc tieáp hoaëc giaùn
tieáp, hay bõm keùt nõõuc lõõõn taөu hoaëc nõõuc ðaén taөu coù laãn
nõõuc saïch khaùc xuoáng vuøng nõõuc cuõa baát coù haùi caùng,
soäng ngoaï naөo hay vaөo baát kyø vuøng nõõuc treân bõø naөo
trong Tieáu Bang.

IV. THÕIC THI LUAÁT

Caùc vi phaïm seõ ðo Ñaïi Lyù Caùng vaө Ñõn Vò Caùnh Saùt Haùi
Caùng ñieäu tra vaө ngõõõ vi phaïm seõ bõ thõa ra toөa. Caùc thieát
bõ theo ðoõi thí ñuï nhõ maùy quay phim video cuõng coù theá ñoõïc
ðuõng ñeá nhaán ðieän ngõõõ vi phaïm.

- Boû laïi phin loïc daàu hoaëc raüc trong traïm thu hoài daàu. Phin loïc daàu cuõng coù theá ñoïc xaù caïn baêng söùc noùng (ñaët ôû tö theá thaúng ñoùng vaø choïc thuúng loã ôû phía treân ñaénh, treân 60°F) trong 24 giôø, boû vaøo trong bao ny-loàng bòt kín, vaø boû vaøo thuøng raüc.

- Ñoá laãn daàu cuõ, nöôùc coù laãn daàu hay nhieân lieäu vôùi söûn, chaát pha söûn, chaát choáng ñoàng, xaø boàng hoaëc baát coù chaát thaùi nguy hieám naøo khaùc.

- Ñeá chaát thaùi nguy hieám ôû beân trong hay beân ngoaøi traïm thu hoài daàu hoaëc thuøng raüc. Chuû taøu phaûi chòu traùch nhieäm boû caùc chaát thaùi nhô vaây. Neáu quyù vò muoán bieát chaát thaùi naøo laø nguy hieám, xin lieân laïc vôùi Naï Lyù Haùï Caùng Kewalo Basin taï 594-0849.

- Ñoá chaát loùng vaøo trong giaù keá ôû trong traïm thu hoài daàu.

- Laáy caùc thuøng phuy 55 gallon roäng ra khoûi traïm thu hoài daàu ñeá böm daàu nhôùt, nöôùc coù laãn daàu hay nhieân lieäu diesel vaøo. Chuû taøu phaûi chòu traùch nhieäm cung caáp ñiù soá thuøng phuy ñeá chòu heát caùc chaát thaùi naøy.

- Ñeá thuøng phuy hay thuøng daàu nhôùt, nöôùc löôøn taøu hoaëc nhieân lieäu ôû beân ngoaøi traïm thu hoài daàu hay ôû gaøn thuøng raüc.

III. ÑIEÀU LUAÁT, LUAÁT LEÁ VAØ QUY ÑOÀNH

Quy Cheá Duyeät Laï Haï Uy Di (Hawaii Revised Statutes, hay HRS)

HRS §342J Tieâu chuaán ñoái vôùi ngöôøi boû daàu cuõ hoaëc daàu nhôùt cuõ.

Khoäng ñoïc xaù hoaëc laøm cho ngöôøi khaùc xaù hoaëc cho pheùp xaù daàu saïch, daàu cuõ hay daàu taù cheá vaøo ñoùng oáng coáng, heá thoáng thoát nöôùc, nöôùc maët hay nöôùc ngaàm, döng nöôùc töï nhieân, nöôùc bieán hay treân maët ñaát.

HRS §342D Hình phạt dân số quy ñoành phạt tối đa \$25,000.00 cho từng vi phạm riêng biệt.

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I. LỖI MÔU NÀU

Daàu cuõ laø nguon gaây oâ nhieãm nguy hieãm neáu khoâng ñoõic quaûn lyù toát. Moät lít daàu cuõ coù theå gaây oâ nhieãm 250, 000 gallon nõõuc vaø coù theå laøm thoõng toản caù, chìm choùc vaø ñoõic soáng thuûy sinh khaùc. Ngoaøi ra, daàu cuõ coøn chõua caùc thaønh phaàn ñoác toá coù theå gaây ung thõ vaø beãnh taät khaùc cho con ngõõoi. Neáu trong daàu cuõ coù laãn chaát thaûi nguy hieãm nhõ dung moãi, sôn, chaát pha sôn, chaát choáng ñoàng hay nhieãn lieäu, thì toaøn boả hoãn hõp seõ trõu thaønh chaát thaûi nguy hieãm.

Daàu cuõ coù theå ñoõic taùi cheá. Phaân Ban Haûi Caûng ñaõ thieát laäp ba traïm thu hoài daàu taïi Caàu Taøu 18 vaø 36 trong Haûi Caûng Honolulu vaø ôû Kewalo Basin. Ba traïm naøy phuïc vuï mieãn phí cho taøu nhoû vaø taøu thoõng maïi côõ nhoû. Nhaø thaàu phuï seõ thu hoài vaø saép xeáp cho vieác taùi cheá nhieãn lieäu diesel, nõõuc lõõõn taøu (nõõuc coù laãn daàu) vaø daàu cuõ.

II. CAÙCH SÕU DUÏNG TRAÏM THU HOÀI DAÀU

THOÏC HIEÃN

- Ñoả thuøng côõ nhoû daàu nhõùt, nõõuc lõõõn taøu vaø nhieãn lieäu diesel vaøo trong thuøng phuy 55 gallon ñaõ chuaån bò saûn. Khoâng ñoả laãn vôùi nhau caùc loaïi chaát loùng khaùc nhau.

- Phaûi chaéc raêng thuøng chõua ñoõic truùt caïn hoaøn toaøn vaø ñaët vaøo trong bao ny-loàng bòt kín trõõuc khi boû vaøo thuøng raùc.

- Lau doãn caùc chaát loùng laøm ñoả.

- Neáu thuøng phuy 55 gallon ñaõ ñaày, coù theå ñoả vaøo caùc thuøng chõua khaùc coù saûn ñoõic ñaët treãn giaù keà ôû beãn trong traïm thu hoài daàu neáu chuùng vaãn coøn trong tình traïng toát vaø coù ghi nhaõn veà dung tích. Tình traïng toát coù nghóa laø kín khí, khoâng bò moùp meùo, ræ seùt, nõùt hay rò ræ.

- Ñaët thuøng phuy chaát loùng leãn giaù keà ôû beãn trong traïm thu hoài daàu.

NGHIEÃM CAÁM

- Ñoả laãn nõõuc coù daàu (nõõuc lõõõn taøu) hay nhieãn lieäu vôùi daàu cuõ.

I. INTRODUCTION

Used oil is a dangerous pollutant if improperly managed. One quart of used oil can contaminate 250, 000 gallons of water and can injure fish, birds and other aquatic life. In addition, used oil contains toxic components that can cause cancer and other disease in humans. If used oil is contaminated with a hazardous waste such as solvents, paint, paint thinner, anti-freeze or fuel, the whole mixture becomes a hazardous waste.

Used oil can be recycled. Harbors Division has provided three oil collection stations at Pier 18 and 36 in Honolulu Harbor and at Kewalo Basin. These stations are provided at no cost to small craft and smaller commercial vessel users. A private contractor collects and arranges for recycling of diesel fuel, bilge water (oily water) and used oil.

II. Use of Oil Collection Stations

DO

- Pour smaller containers of oil, bilge water and diesel fuel into the 55-gallon drums provided. Do not mix different types of liquids.
- Ensure that containers are completely drained and placed in a closed plastic bag before disposal in the trash bins.
- Clean up spills from transfer of liquids.
- If 55-gallon drums are full, other containers may be left on the spill pallets inside the oil collection stations provided that the containers are in good condition and labeled with the contents. Good condition means tightly closed, not dented, rusted, cracked or leaking.
- Place drums of liquids on the spill pallets inside the oil collection station.

DO NOT

- Mix oily water (bilge water) or fuel with used oil.
- Leave oil filters or trash in the oil collection stations. Oil filters may be hot drained (placed in a vertical position with the top punctured, above 60 degrees Fahrenheit) for 24 hours, placed in a closed plastic bag, and disposed of in the trash bins.
- Contaminate used oil, oily water or diesel fuel with paint, paint thinner, anti-freeze, soap or any other hazardous waste.
- Leave hazardous waste in or outside the oil collection stations or trash bins. It is the responsibility of the vessel owner to dispose of such materials. If you have questions regarding whether a substance is hazardous, contact the Kewalo Basin Harbor Agent at 594-0849.
- Pour liquids into the spill pallets in the oil collection stations.
- Remove empty 55-gallon drums from the oil collection stations for pumping oil, oily water or diesel fuel into. It is the responsibility of the vessel owner to provide drums for larger quantities of these substances.
- Leave drums or containers of oil, bilge water or fuel outside the oil collection stations or in the vicinity of trash bins.

III. LAWS, RULES AND REGULATIONS

Hawaii Revised Statutes (HRS)

HRS §342J Standards for persons who deal with used oil or used oil fuel.

No new oil, used oil or recycled oil shall be discharged or caused or allowed to enter into the sewers, drainage systems, surface or ground water, watercourse, marine waters or onto the ground.

TIEAU BANG HÃI UY DI BAN GIAO THOANG PHAÂN BAN HAÛI CAÛNG

DAÀU CUÕ

MUÏC LUÏC

- I. LÕØI MÔU ÑÀÀU
- II. CAÛCH SÕU DUÏNG TRAÏM THU HOÀI DAÀU
- III. ÑIEÀU LUAÄT, LUAÄT LEÃ VAØ QUY ÑÒNH
- IV. THÕÏC THI LUAÄT

IV. 시행

위반하는 경우 항만 기관 및 항만 경찰서의 조사를 받게 되며, 위반자는 소환됩니다. 위반자의 식별을 위해 감시 기구가 사용될 수 있습니다.

HRS §342D Civil penalties provides for a maximum of \$25,000.00 for each separate offense.

HAWAII ADMINISTRATIVE RULES (HAR)

HAR §19-42-126 Littering or polluting land areas prohibited.

(b) No person shall deposit oil, oily refuse, sludge chemicals or other hydrocarbons on State property except in specially designated collection points. These items may not be left in or near standard refuse containers or anywhere else on harbors

property. Penalties, including but not limited to the revocation of mooring permits and the right to use the facilities may be invoked.

HAR §19-42-127 Littering or polluting of water prohibited. No person shall place, throw, deposit or discharge, or cause to be placed, thrown, deposited or discharged into the waters of any harbor, river or shore waters of the State any litter, or other gaseous, liquid or solid materials which render the waters unsightly, noxious or otherwise unwholesome so as to be detrimental to the public health and welfare or a navigational hazard. No person shall discharge oil sludge, oil refuse, fuel oil or molasses either directly or indirectly, or pump bilges or ballast tanks containing other than clean water into the waters of any harbor, river or into any shore waters in the State.

IV. ENFORCEMENT

Violations will be investigated by Harbor Agents and Harbor Police Units and violators will be cited. Surveillance devices such as video cameras may be used to identify violators.

III. 법률, 규정, 규칙

하와이주 개정법률 (HRS)

HRS §342J 사용유 또는 사용유 연료 취급자의 기준

신유, 사용유 또는 재생유는 하수관, 배수 장치, 표면수 또는 지면수, 수로, 해수 또는 지면으로 배출되거나 들어오도록 야기되거나 허용되어서는 안된다.

HRS §342D 각 별개의 위반에 대해 최고 \$25,000.00 의 민사 처벌이 주어진다.

하와이 행정규칙 (HAR)

HAR §19-42-126 지면에 쓰레기를 버리는 행위나 지면 오염은 금지된다.

(b) 특정 수집 장소 이외에는 주정부 재산에 어느 누구도 기름, 기름 찌꺼기, 슬러지 화학물 또는 기타 탄화수소물을 넣어서는 안된다. 이러한 품목들을 항구 소유지의 구역 쓰레기 용기 안이나 주변 또는 기타 장소에 두어서는 안된다. 계류 허가 및 시설사용권의 취소 등의 처벌이 결과될 수 있다.

HAR §19-42-127 물에 쓰레기를 버리거나 물을 오염시키는 행위는 금지된다. 어느 누구도 주 항구, 강 또는 해안의 물에 보기 흉하거나 유해하거나 기타 건강에 나쁜 쓰레기나 기타 기체, 액체 또는 고체 물질을 두거나, 던지거나, 놓거나 배출시키거나, 두거나 던지거나 놓거나 배출되도록 하여 공중의 건강과 복지 또는 해운의 유해를 초래해서는 안된다. 어느 누구도 기름 슬러지, 기름 찌꺼기, 연료 기름 또는 덩어리를 직접 또는 간접적으로 배출시키거나, 정수 이외의 물질이 함유된 감수나 밸러스트 탱크를 펌프로 퍼올려 주 항구, 강 또는 해안의 물에 유출해서는 안된다.

-액체 드럼들을 사용유 수집 장소 안의 스펠 팔레트에
놓으십시오.

금지 사항

-기름진 물(감수)이나 연료를 사용유와 섞지 마십시오.

-오일 필터나 쓰레기를 사용유 수집 장소에 두지 마십시오.
오일 필터의 기름은 24 시간 동안 뜨거운 상태로 빼 (화씨
60 도 이상의 온도에서 맨 위에 구멍을 낸 수직 상태로 놓아)
비닐백에 넣어 밀봉한 후 쓰레기 통에 버리면 됩니다.

-사용유, 기름진 물 또는 디젤 원료를 페인트, 페인트 시너,
부동액, 비누 또는 기타 위험 폐기물과 혼합시켜 오염시키지
마십시오.

-위험 폐기물을 사용유 수집 장소나 쓰레기 통의 안이나 밖에
두지 마십시오. 이러한 물질을 처분하는 것은 선박 소유주의
책임입니다. 특정 물질의 위험물질 여부에 관해 의문이
있으시면 594-0849 의 케알로 만 항만 기관에 연락하십시오.

-액체를 사용유 수집 장소의 스펠 팔레트에 붓지 마십시오.

-기름, 기름진 물 또는 디젤 원료를 채워 넣기 위해 사용유
수집 장소에서 빈 55 갤런 드럼을 치우지 마십시오. 이러한
물질들을 더 많이 담을 수 있는 드럼을 제공하는 것은 선박
소유주의 책임입니다.

-기름, 감수 또는 연료가 들어있는 드럼이나 용기를 사용유
수집 장소 바깥이나 쓰레기통 근처에 두지 마십시오.

하와이주
교통부
항만국

사용유

목차

- I. 서론
- II. 사용유 수집장소의 이용
- III. 법률, 규정 및 규칙
- IV. 시행

I. 서론

사용유는 부적절하게 관리되는 경우 위험을 초래하는 오염물질입니다. 1 쿼터의 사용유는 250, 000 갤런의 물을 오염시킬 수 있으며, 어류, 조류 및 기타 수중 생물을 해칠 수 있습니다. 또한 사용유에는 인간의 암과 기타 질병의 원인이 되는 유독 성분이 포함되어 있습니다. 사용유가 솔벤트, 페인트, 페인트 시너, 부동액이나 연료 등의 위험 폐기물과 혼합되어 불순하게 되는 경우, 모든 혼합물이 위험 폐기물이 됩니다.

사용유는 재활용될 수 있습니다. 항만국(Harbors Division)은 호놀룰루항의 제 18 부두와 제 36 부두 및 케알로 만에 3 개의 사용유 수집 장소를 마련했습니다. 이 장소들은 소형 선박과 소형 상선 사용자들에게 무료로 제공됩니다. 개인 계약회사들은 디젤 원료, 감수 (기름기 있는 물) 및 사용유를 수집하고 재생 준비를 합니다.

II. 사용유 수집장소의 이용

권장 사항

- 제공된 55 갤런 드럼들에 그보다 작은 용기에 들어 있는 기름, 감수 및 디젤 원료를 부으십시오. 서로 다른 종류의 액체들은 섞지 마십시오.
- 용기를 완전히 비워 비닐백에 넣어 밀봉한 후 쓰레기 통에 버리십시오.
- 용기를 바꾸어 넣을 때 엇질러진 액체를 씻으십시오.
- 55 갤런 드럼이 꽉 차면, 용기의 상태가 좋고 내용물이 표시된 경우, 사용유 수집 장소 안의 스펠 팔레트 위에 다른 용기들을 놓아도 됩니다. 좋은 상태란 단단히 잠기고, 움푹하게 들어가거나 녹이 나거나 금이 가거나 새는 곳이 없다는 것을 의미합니다.



KEEP THE STORM DRAINS CLEAN

Storm water pollution is a problem that affects all of us. When it rains, water flows over our streets and yards and carries the pollutants it picks up into the storm drains. The problem is that storm drains are not connected to the wastewater treatment plant. So, what's in the streets flows directly into the ocean, *untreated*.

But you can make a difference. By maintaining the storm drains, you can help make our beaches free of pollution. Each company takes personal responsibility for their storm drains, making sure that debris is cleaned up and not going into our ocean. Contact Hawaii Department of Transportation Harbors Division for more information at 808-587-1962.

When you're at home, share your knowledge with neighbors and family. As you drive to work, be aware of any illegal discharges. And, if you do see an illegal discharge, report it.

Whether at home or at work, by adopting some simple Best Management Practices (BMPs), you can stop pollutants from being generated and entering our storm drain system.

- Use dry clean-up methods for spills and outdoor cleaning. Vacuum, sweep, and use rags or dry absorbents.
- Properly label, store and dispose of hazardous wastes.
- Rake, sweep-up, and place all debris (dust, litter, sediment, etc.) from your yard or near your property into a trash can.
- Use a mop where water is needed.

As you perform your daily activities be proactive. Assess the activity from a storm water pollution point-of-view and ask yourself; "does this activity, directly or indirectly, generate pollution?" And, "how can I get the job done and prevent debris from entering into the storm drain collection system?" Here are some general guidelines you can use at home or on the job:

The 3 Cs

Contain: Isolate your work area, to prevent any potential flow or discharge from leaving the area.



Control: Locate the nearest storm drain(s) and take measures to ensure nothing will enter or discharge into them. This may require you to sweep-up and place debris & sediment in a trash can prior to beginning the work activity.

Capture: Once you have completed a job, be sure to clean-up the area. If there is sediment, sweep it up. If there are liquids, absorb it or vacuum it up with a wet-vac.



Remember, what you leave behind can potentially be discharged into the storm drain.

Be Part of the Pollution Solution
Storm Water Concerns: 808-587-1962



Only Rain goes in the Storm Drain!



Dump No Waste, Protect Our Ocean and Waterways

Did You Know...

The primary purpose of storm drains is to carry rain water away from developed areas to prevent flooding. Storm drains are **not** connected to sanitary sewer systems and treatment plants. Untreated storm water and the pollutants it carries flow directly to streams and the ocean.

Storm water pollution comes from a variety of sources including:

- Oil, fuel and fluids from vehicles and heavy equipment
- Lawn clippings, pesticide and fertilizer runoff from landscaping
- Sediment and concrete from construction and landscaping activities
- Bacteria from human and animal waste
- Litter



The Hawaii Department of Transportation Harbors Division (Harbors) is committed to improving water quality and reducing the amount of pollutants that enter our precious waterways.

Why do we need a clean environment?

Having a clean environment is of primary importance for our health and economy. Clean waterways provide commercial opportunities, recreation, fish habitat and add beauty to our landscape. All of us benefit from clean water - and all of us have a role in making and keeping our streams and ocean clean.



EVERYONE is responsible for protecting storm water!

Storm Water pollution prevention is a shared duty between the Harbors and the Community. Everyone has a part to play in keeping our storm drains free of pollutants. Methods used to prevent storm water pollution are called Best Management Practices (BMPs).

Help keep our streams and ocean clean! Below are some BMPs you can use at work.

Sweep or Rake

- Sweep up debris and put it in a trash Can. Do not use a hose to wash off sidewalks, parking areas and garages. Rake up yard waste and start a compost pile.



Reduce Use of Landscape Chemicals

- Minimize the use of lawn and garden care products such as pesticides, insecticides, weed killers, fertilizers, herbicides and other chemicals. Avoid over-irrigation which washes chemicals into the gutter and storm drains.

Use Soap Sparingly

- When washing your car at home, use soap sparingly, divert wash water to landscaped areas and pour your bucket of soapy water down the sink.

Clean up After Your Pets

- Take a bag when you walk your pets and be sure to always clean up after them. Flush pet waste down the toilet or dispose of it in a sealed plastic bag in the trash.

Buy Non-Toxic Products

- When possible, use non-toxic products for household cleaning. If you must use a toxic cleaning product, buy small quantities, Use it sparingly and properly dispose of unused portions.

What is the Storm Water Program?

Harbors is regulated by a municipal storm water permit that was issued by the State Department of Health. Harbors' Storm Water Program helps to ensure compliance with the permit by:



- Inspecting Harbors businesses and requiring BMPs to prevent pollution

- Investigating and eliminating illegal discharges to the storm water system



- Investigating stormwater outfalls to eliminate dry weather flows.

- Educating the public about ways to prevent storm water pollution



Are all discharges to the storm drain illegal?

In the strictest definition, only rain water can legally enter the storm drain. However, the permit currently allows some types of discharges into storm drains when BMPs are used to reduce pollutants. Some examples include:

- Landscape irrigation and lawn watering runoff
- Dechlorinated pool water
- Potable water sources
- Foundation drains
- Water line flushing



How do I report a storm water violation?

The Harbors Environmental Engineering division is prepared to receive referrals about storm water pollution and illegal discharges and to answer questions about storm water pollution prevention.

If you see someone dumping or washing waste or pollutants to the street or storm drain, please call **587-1962** or send an email to randal.leong@hawaii.gov. This information is then routed to the appropriate person for response.

Where can I get more information?

- Visit the EPA's storm water website at: <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm> to view brochures, documents or link to other water quality websites.
- Call **587-1962** to have information sent to you.

- To view a copy of the Permit, please go to <http://www.state.hi.us/dot/harbors/oahu/storm.htm>

What is Harbors doing to keep our waterways clean?



Significant efforts are being made by Harbors to help keep our waterways clean. A few program activities are listed below:

- Educating Harbors Tenants about storm water pollution prevention through our website, brochures, publications, workshops and public events.
- Inspecting construction sites to ensure that developers are implementing Best Management Practices.
- Implementing Best Management Practices at Harbors facilities.
- Conducting inspections of Harbors tenants to ensure businesses are aware of and complying with the storm water program requirements.
- Addressing storm water requirements for new development and significant redevelopment.
- Investigating reports of illegal discharges.
- Perform interagency SWMP coordination, including coordination and cooperation with City and County of Honolulu's Storm Water Quality Branch and State of Hawaii, Department of Transportation, Highways Division's Drainage Discharge Unit.

Be Part of the Pollution Solution
Storm Water Concerns: 808-587-1962

APPENDIX G

HARBORS PRESENTATION AND TRAINING RECORD

TENANT STORM WATER POLLUTION PREVENTION AWARENESS TRAINING

Hawaii Department of Transportation – Harbors
Division

Introduction


- Hawaii Department of Transportation – Harbors Division
 - Mr. Fred Nunes PE – Engineering Program Manager
 - Mr. Randal Leong PE – Environmental Engineer
 - Mr. Richard Min – Environmental Health Specialist
- Weston Solutions, Inc.
 - Mr. David Johnson
 - Mr. Mark Ambler PE, PMP

Agenda

- Regulatory Background
- Harbors (Small MS4) General Permit Requirements
 - Public Education
 - Public Participation
 - Illicit Discharge Detection and Elimination (IDDE) Program
 - Construction Site Run-Off Control
 - Post Construction Control
- Video Presentation (20 mins) – “Just Passing Through”
- Pollution Prevention and Good Housekeeping
- Facility Inspections
- Enforcement Response Program
- Contact Information
- Questions and Answers


Federal Regulatory Background

- Clean Water Act (40 CFR 100-149)
 - 1972 Clean Water Act– Swimmable, Fishable
 - 1987 Amendments – NPDES (National Pollutant Discharge Elimination System) regulations
- NPDES – Environmental Protection Agency Regulatory Authority
 - Phase I issued in 1990 – Individual Permit
 - Industrial Facilities
 - Construction Sites > 5 acres
 - Phase II issued in 1999 – General Permit
 - Medium and Large Municipal Separate Storm Sewer System (MS4)
 - Small MS4
 - Construction Sites > 1 acre < 5 acres
- MS4 – conveyance that is owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.; designed or used to collect or convey stormwater; and not combined with sewer.



Hawaii Regulatory Background

- NPDES regulatory authority is administered by Hawaii Department of Health
- Hawaii Administrative Rules (HAR)
 - Title 11 Chapter 55 (11-55)
 - Water Pollution Control
 - Appendix K
 - NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Discharges from Small MS4s
- Harbors Division – Notice of General Permit Coverage (NGPC)
 - HI 03KB482 – Honolulu Harbor Permit
 - HI 03KB488 – Kalaeloa Barbers Point Harbor Permit



General Permit Requirements

Minimum Control Measures

Each Minimum Control Measure Requires:

- Written Plan
- BMP Implementation
- Training
- Reporting
- Enforcement

- Public Education & Outreach
- Public Participation & Involvement
- Illicit Discharge Detection & Elimination
- Construction Site Runoff Control
- Post-Construction Runoff Control
- Pollution Prevention & Good Housekeeping

General Permit Allowable Discharges

- ❑ Water Line Flushing
- ❑ Landscape Irrigation
- ❑ Diverted Stream Flows
- ❑ Rising Ground Water
- ❑ Uncontaminated Ground Water Infiltration
- ❑ Uncontaminated Pumped Ground Water
- ❑ Discharges from Potable Water Sources
- ❑ Air Conditioning Condensate
- ❑ Crawl Space Pumps and Footing Drains
- ❑ Dechlorinated Swimming Pool Water
- ❑ Discharges from Fire Fighting Activities

Storm Water Best Management Practices

What Are They?

Administrative and structural controls that are utilized to reduce storm water pollution and keep our surface waters and oceans clean.

- ❑ Administrative Controls
 - ❑ Inspections
 - ❑ Housekeeping
 - ❑ Material Handling and Storage Practices
 - ❑ Maintenance Schedules
- ❑ Structural Controls
 - ❑ Secondary Containment
 - ❑ Berms
 - ❑ Washracks
 - ❑ Silt Fencing
 - ❑ Drain Inlet Protection, etc...

Public Education & Participation

<http://www.state.hi.us/dot/harbors/oahu/storm.htm>



Illicit Discharge Detection & Elimination (IDDE) Program

Common sources of illicit discharges include -

- ❑ Sewage effluent from leaking sewer collection and transmission lines
- ❑ Commercial carwash and laundry wastewater
- ❑ Floor washing to shop drains
- ❑ Commercial Vehicle and Equipment washwater
- ❑ Potable line flushing that runs across landscapes
- ❑ Pumping of vaults or trenches
- ❑ Construction activities
- ❑ Liquid wastes containing oil, paint, and process water
- ❑ Waste water from manufacturing or equipment processes
- ❑ Pesticides, herbicides, and other industrial chemicals



Outfall Inspections



- ❑ Dry Weather Outfall Inspections will be performed to detect illicit discharges into outfalls.
- ❑ Dry Weather Flow indicates non-storm water discharges. Tracking these drain systems back to the source is an efficient way to detect Illicit Discharges



Illicit Discharges Threaten our Waters



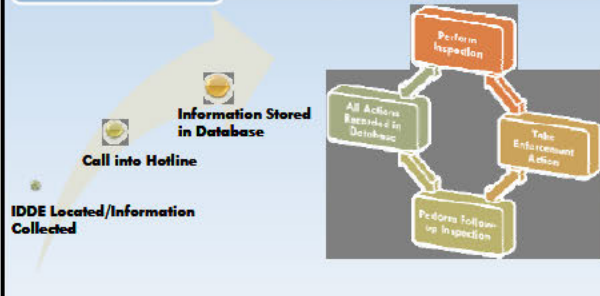
REPORT IT!!



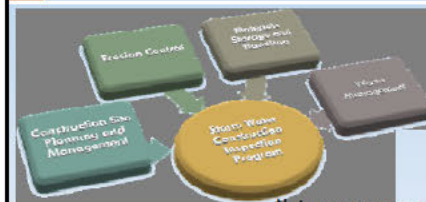
Illicit Discharge Reporting

Interim Compliance
Hotline

• (808) 587-1962



Construction Site Runoff Control



Common Problems Found During Inspections

- No temporary or permanent cover
- No sediment controls on-site
- No sediment control for temporary stockpiles
- No inlet protection
- No BMPs to minimize vehicle tracking on to the road
- Improper solid waste or hazardous materials management
- Dewatering at the construction site
- Poorly maintained BMPs

Stockpiling

Improper Stockpiling – No BMPs



Insufficient Containment of Stockpile – Silt Fence Not Properly Installed

Stockpiling



Cover Stockpiled Material
*Covers provide dust suppression and prevent polluted runoff.

Use Silt Fences to Contain Stockpiles



Silt Fencing



Inspection and maintenance of BMP's is as important as installing them. Improperly maintained silt fences are ineffective.



Silt Fencing



Vegetated Swale!!



Storm Drain Inlet Protection



Storm Drain Inlet Protection



Cleaning Equipment

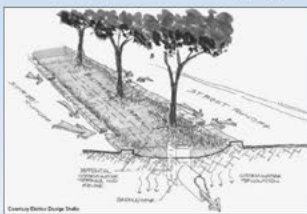


Equipment Cleaning



Post-Construction Controls

Post-Construction Storm Water Management starts early on in the design process! Tools like Low-Impact Development and Green Design can be used to create a cost effective system for managing runoff from your sites.



Create a Hydrologically Functional Site!!!



Post-Construction Controls

Considering water quality impacts early in the design process can provide long-term water quality benefits.

- ❑ Low-Impact Development
- ❑ Green Design
- ❑ Site Specific/Innovative BMPs
- ❑ Infiltration
- ❑ Filtration
- ❑ Retention/Detention
- ❑ Isolation/Separation of Runoff from Processes

Options you can use to manage your site:

Eliminating Curbs and Gutters
Green Parking
Green Roofs
Protection of Natural Features
Urban Forestry
Grassed Swales
Infiltration Basin/Trench
Permeable Pavement
Porous Asphalt Pavement
Sand and Organic Filters
Vegetated Filter Strip
Dry Detention Ponds
In-Line Storage
Storm Water Wetland

Post-Construction Controls



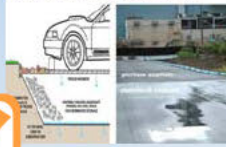
Drainage Swales



Storm Water Retention Ponds



Porous Pavement & Storm Water



Green Roofs

Pollution Prevention & Good Housekeeping

VIDEO Presentation

"JUST PASSING THROUGH"
Stormwater Pollution Prevention
EXCAL Visual Communications



Pollution Prevention & Good Housekeeping

- ❑ Proper Labeling and Handling of Cleaners, Solvents, and Chemicals
- ❑ Organized Chemical Storage
- ❑ Responsible Disposal of Chemicals
- ❑ Storage Procedures should include covering stored metals
- ❑ Proper site drainage should be in place
- ❑ Proper Equipment/Material Storage
- ❑ Timely Equipment O&M
- ❑ Site maintenance and cleaning procedures should be in place. They should address environmental considerations and they should include BMP's



Pollution Prevention & Good Housekeeping



Pollution Prevention & Good Housekeeping



Stocked metals should be covered to prevent heavy metal intrusion into waterways



Pollution Prevention & Good Housekeeping



All drums should be in good, working condition. Inspections should be held regularly and any drums with damage should be replaced immediately.



Pollution Prevention & Good Housekeeping



Access to chemicals should be restricted to personnel trained in proper handling and disposal procedures; all should be labeled and have MSDS available



Flammable chemicals, solvents, and paints should be stored in a fireproof locker. Chemicals should be separated by compatibility

Pollution Prevention & Good Housekeeping



Do not overfill



Trash bin kept covered when not in use



Keep trash and debris from accumulating around the bin, because storm water will carry it out to the ocean

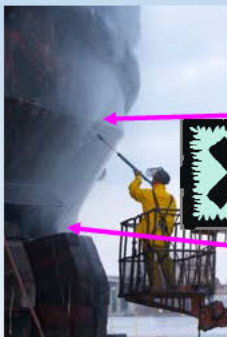
Vehicle and Equipment Washing

- Allowed only at designated facilities
 - ▢ Water must be contained
 - ▢ Facility should be covered
 - ▢ Oil/Water Separator
 - ▢ Connected to Sanitary Sewer
- Wash water is NOT allowed outside/uncontained
 - ▢ Includes discharge of mop water
 - ▢ Includes rinsing or cleaning of waste bins
 - ▢ Always seek approval for discharge to sanitary sewer

Vehicle and Equipment Washing



Vehicle and Equipment Washing



No Containment means metals, greases, oils, and other contaminants are being directly discharged into the waterway.

Containment and Collection is required

Vehicle and Equipment Washing



Permitted Vehicle Wash Rack



Temporary Only: Wash water and debris require off-site disposal; Minimize detergents and overspray



Spill Prevention and Response

- PREVENTION FIRST!!
- Proper Storage
 - Secondary Containment
 - Protected from equipment damage
 - Install shut-off controls, overfill protection, etc...
 - Stored away from storm drains
- Proper filling and handling procedures
 - Use drip pans
 - Use drop cloths

Spill Prevention and Response

SPILL RESPONSE

- Assess the Spill
 - What Spilled
 - How Much Spilled
 - Where did it Spill; Surface Water Impacted?
 - Toxic or Hazardous Substance?
- Stop the release
- Contain the Spill
- Clean the Spill
- Properly Dispose of Materials
- Report All Spills
 - Small Spills should be tracked internally
 - Large Spills
 - Harbors Environmental
 - Hawaii Department of Health
 - U.S. Coast Guard



Secondary Containment



Secondary Containment



Secondary Containment

- Keep locked to prevent unwanted discharge
- If excess storm water collects, inspect for sheen and/or test storm water to determine whether there are contaminants present



- If no contaminants present, supervise and document discharge of clean storm water and relock valve

Spill Prevention and Response



Tenant Facility Inspections

- Site Inspections will be conducted for select tenants before the end of the year (2009).
 - Inspection Checklist Provided
 - Inspection Report and Findings to be provided following Site Visits
 - Follow-up Inspections will be scheduled if required
 - Serious Violations will require immediate action
 - Depending on the severity of the discharge, regulatory actions may be pursued.
 - All inspection results and actions will be added to our database.
- All Tenants will be inspected in 2010

Site Inspections



Construction Site Inspections

Site Inspections will be held on active construction sites to ensure NPDES is being properly followed.

Inspections will focus on proper BMP Management to reduce illicit discharges into the Harbor's storm drain system.



Construction Site Inspections



Enforcement Response Program

Regulatory Mechanisms

- Hawaii Administrative Rules (HAR)
- Hawaii Revised Statutes (HRS)
- Tenant Leases/Revocable Permits
- 40 CFR - Clean Water Act & NPDES
- Other Applicable State & Federal Regulations

Penalties for Lack of Compliance (dependant on severity of violation)

- Verbal Warnings
- Written Notices
- Citation with Monetary Fines
- Stop Work Orders
- Abatement by Harbors Division with Reimbursement by the Responsible Party
- Lease/Permit Termination
- Referral to HDOH or Other Appropriate Regulatory Agency
- Monetary Fines – Up to \$27,500 Per Day!!!

Storm Water Contacts

First Call Harbors Hotline

- Harbors Hotline @ (808) 587-1960

Discharges

- Marine Trawls Control Unit @ (808) 587-3076
- Harbor Police @ (808) 587-2006; (808) 587-2007

Serious Offenses

- Hawaii Department of Health, Clean Water Branch @ (808) 586-4330
- U.S. Coast Guard @ 1 (800) 424-8802
- USEPA @ (808) 541-2721



COVER IT! CLEAN IT! COLLECT IT!
KEEP OUR WATERS CLEAN.....

- ❑ Questions?
- ❑ Comments?

Please fill out the provided survey.



A single tin of paint can contaminate millions of gallons of water!

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HDOT HARBORS TENANT STORM WATER POLLUTION PREVENTION AWARENESS TRAINING

NAME	TENANT (Company)	PHONE	EMAIL
HOWARD WEST	GLP Asphalt	479-4320	hauwahine@sciencei.com
→ Sara Thomas	GLP Asphalt	348-4895	stthomas@gracepacificcorp.com
R. R. Acoma	CLASSIC TIE	841-6893	
Tim Buell	Alum. Side coat		
LINDA GOLDSTEIN	AMERON	266-2672	lgoldstein@ameronhawaii.com
ANDREW SOUZA	McCabe Hamilton	479-0356	andrewsouza16@msn.com
STEVE HINTON	MARISCO, LTD.	306-5935	shinton@marisco.net
J. PEDRO	HFD	529-3881	jpedro@honolulu.gov
JASON YANG KEVIN LEE	HABA LEE INC Supermarket	841-8699 398-0136	
Mike Chabala	Unitek	831-3076 x230 330-8642	mchabala@unitekinsurance.com
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DAVID MARISCAL	CLEAN ISLANDS	845-8465	KYLE@CLEANISLANDS.ORG
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ALBERTO RODRIGUEZ	SAUSE BROS	864-1627	PACMAR1996@YAHOO.COM
Patricia F. Shinsato	Industrial Chem	842-4116	ic1@clearwire.net
Brian Lottov	HPC Foods, Ltd.	848-2431	brian brian@hpcfoods.com
Alex CHAN	RE INT'L INC	383-8339	

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HDBT HARBORS TENANT STORM WATER POLLUTION PREVENTION AWARENESS TRAINING

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KYLE SZYMANSKI	PROSPECT ENERGENS	848-1900	KSZYMANSKE1923@YAHOO.COM
RODNEY S NAKAMURA	MILLER INDUSTRIES	8480855	
RODNEY S NAKAMURA	R.S. NAKAMURA WELDING	2282551	NONE
Richard PRESTON	Alcoa Containers	843-8600	
LYNN WIGER	PARADISE COXSE	222-4334	lwiger@STAROFHAWAII.COM
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Wayne Stadel	Sease Bros	306-2177	Waynes@Sease.com
Jim Peck	Pacific Shipyard State	891-3768	jpeck@pacificshipyard.com
Ralph Dewitt	PER Water	554-3436	
Madison Graham	Tropical A's Jr	848-0889	madison@tropicalis.com
Thad Brown	Tropical A's	✓	jere@tropicalis.com
STEPHEN VILBERG	PER WATER TAVI	529-9311	S.VILBERG@PERWATER.TAVI.COM

HDOT HARBORS TENANT STORM WATER POLLUTION PREVENTION AWARENESS TRAINING

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Theresa Alcasiba	" "	" "	" "
Clyde Tsukimura	International Express	841-6005	clydet@interexp.com
Clyde Tsukimura	Jet Pro	841-6005	
Tom Crescenzi	ACT	536-7033	Tom@ACTHI.com
CHAD MILLER	PETROSPECT	536-6631	ops@petrospect.net
Daniel Otani	United Fishing Agency	536-2148	dtv51@gmail.com
William Putre	NOAA Fisheries	983-5371	william.putre@noaa.gov
CALVIN BEPPU	UNITED EXCAVATION	292-3785	
BRIAN NAGATOSHI	HAWAII PAINT & WALLS	479-6501	HAWAII.PAINTING@GMAIL.COM
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Albert Kahalekulu	Kapalama FCU	845-9069	
Robert Steinke	Steinke Bros	488-8668	
Clarence Silva	Steinke Bros	478-0028	
Lewi Kani	CSB INC	216-1507	CSBINC@HAWAII.RR.COM
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TONY SUSSEX	THE SUSSEX CO	285-2836	TONY.SUSSEX@HAWAII.RR.COM
TONY SUSSEX	THE BOYCE LUTER	285-2836	TONY.SUSSEX@CASEY@HAWAII.RR.COM
Mel R Hardy	ANDY Coast	226-5343	-

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HDOT HARBORS TENANT STORM WATER POLLUTION PREVENTION AWARENESS TRAINING

[illegible]

APPENDIX H

STORMWATER HOTLINE OCCURRENCE TRACKING (SHOT) FORM



Stormwater Hotline Occurrence Tracking (SHOT) Form

LINE ITEM	FORM FIELD
Caller Information	
Caller Name	
Caller Company	
Telephone Number	
Email Address	
Date/Time Received	
Occurrence Information	
<input type="checkbox"/> Information Request	<input type="checkbox"/> Discharge Reporting <input type="checkbox"/> Complaint <input type="checkbox"/> Commendation
<input type="checkbox"/> Information Request	
Information Requested	
Actions Taken	
Additional Information	
<input type="checkbox"/> Discharge Reporting	
Address or Location of Discharge	
Time/Date of Discharge	
Substance/Amount Discharged (if known)	
Media into which the discharge occurred: <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Natural Ground <input type="checkbox"/> Concrete/Asphalt <input type="checkbox"/> Stream <input type="checkbox"/> Ocean Other: _____	
Responsible Party (if known)	
Cause of Discharge (if known)	
Clean-up Actions Taken (if applicable)	
Notifications Made/Actions Taken by Harbors Division	
Follow Information	

LINE ITEM	FORM FIELD
<input type="checkbox"/> Complaint	
Nature of Complaint	
Complaint Details	
Notifications Made/Actions Taken by Harbors Division	
<input type="checkbox"/> Commendation	
Commendation Details	
Notifications Made/Actions Taken by Harbors Division	
Points of Contact for Immediate Response	
In the event of an emergency needing immediate response, call the numbers listed below:	
Point of Contact	Telephone Number
Marine Traffic Control Center	808-587-2076
Marine Cargo Specialist	808-587-2053
City and County of Honolulu Environmental Concern Hotline	808-768-3300
Department of Health, Clean Water Branch	808-586-4309
Coast Guard	1-800-424-8802

APPENDIX I

HONOLULU ADVERTISER PROOF AND RECEIPT

“Please don’t soil our waters!”

Wherever you see bare soil, you're seeing water pollution just waiting to happen. Because without vegetation, dirt washes away every time it rains. And it ends up in our streams and ocean.

One of the biggest threats to water quality is plain old dirt, washing into our Hawaiian streams to the marine environment from large land-based sources, such as the mauka forests and kula agricultural lands. Also sources closer to home where top soil or silt from gardens, roads, driveways, construction sites can runoff into the storm drainage system and settles into streams and the ocean, harming humans, fishes and the coral reefs.

How could something so ‘natural’ be so harmful?

Soil erosion is natural after all. Soil is a valuable resource on the land, but when washed into streams and the ocean, it is one of our biggest water quality problems. We can accelerate soil erosion when we change the landscape from forest to gardens, streets, agricultural lands, shopping centers and roads if conservation measures are not followed.

And, we have all seen a stream in our neighborhood turn cloudy or brown after a rainstorm. This cloudy or turbid water makes it difficult for fish to see and feed properly. The particles act as sandpaper against a fish’s gills causing damage and making breathing difficult.

The sediment can clog streams, affect water flow, destroy a stream’s natural ‘riffle and pool’ pattern and make a stream shallower. Flooding problems increase when streams become wider and more shallow.

Sediment clouds the water and covers plant leaves, reducing sunlight penetration and inhibiting photosynthesis (plant food production).

To add to all of these problems, eroded soil particles are more than just soil particles. They carry hitchhiking pollutants like oil, fertilizers, pesticides and bacteria. Toxic materials can contaminate small organisms. When fish and waterfowl eat the contaminated organisms, the toxins accumulate in their bodies and cause illnesses, birth defects and death. In ponds, one particular hitchhiker can be devastating – phosphorous due to soil erosion and water runoff from gardens and even forests and agricultural lands. Urban areas may produce significant nonpoint source phosphorus runoff due to over-application of fertilizer to lawns and gardens. Residents who apply fertilizer without following soil test recommendation eventually build up very high phosphorus levels in the soil that can become significant sources of phosphorus in our streams and ocean. And most importantly, fertilizer, pet waste, and lawn clippings left on driveways, sidewalks, or streets are a direct source of pollution through storm drains in urban areas.

With our changes to the landscape, we increase the amount of phosphorus running off the land. Phosphorus helps plants to grow, but in surface waters it may promote the growth of oxygen robbing algae that contaminate the water and lead to scummy water



Perhaps the place to start, is to know what you can do. A few simple things are a great beginning.

1. Minimize the time soil is exposed when you do construction or landscaping.
2. Seed and mulch any bare soil on your land.
3. Repair and stabilize places where you see soil eroding.
4. For a long-term solution, plant shrubs and trees to act as a buffer between your property and near by waterways that will filter out pollutants.
5. Bag pet waste and throw it in the trash before you leave an area.
6. Test your soil. Contact your local Cooperative Extension Service (CES) office for information on how to take and submit soil samples to the University of ‘Hawaii Agricultural Diagnostic Service Center (ADSC).
7. Use compost to enhance or replace fertilizers
8. Choose a level site, or terrace the garden, to avoid runoff and erosion
9. Place fertilizer near plants rather than broadcast it over the entire garden

If you are not sure if there is any soil erosion happening in your neighborhood or aren’t sure where the worst sites are, try a rainy day survey. Go out during a rain-storm and look for brown water and trace it back to the soil erosion site. And it isn't just new projects -- you may find chronic sites where the ground has been eroding for years. Work with the local landowner by bringing the problem to his or her attention.

Learn more about what you can do to stop soil erosion and sedimentation in your own backyard.



The Honolulu Advertiser

P.O. Box 30210, Honolulu, Hawaii 96820-0210
Phone 808-525-8000 Fed. Tax ID #99-0153143

ADVERTISING INVOICE

1		BILLING PERIOD		2		ADVERTISER/CLIENT NAME					
***		09/28/09 - 11/01/09		HS DEPT TRANS-HARBOR DIV							
23		TOTAL AMOUNT DUE		*UNAPPLIED AMOUNT		3		TERMS OF PAYMENT			
		209.42				DUE ON - 11/21/09					
21		CURRENT NET AMOUNT DUE		22		30 DAYS		60 DAYS		OVER 90 DAYS	
		209.42				.00		.00		.00	

4	PAGE #	5	BILLING DATE	8	BILLED ACCOUNT NAME AND ADDRESS	9	REMITTANCE ADDRESS
	1		11/01/09				
6	BILLED ACCOUNT NUMBER						
	604800				HS DEPT TRANS-HARBOR DIV ATTN: RANDAL H W LEONG 79 S NIMITZ HWY HONOLULU HI 96813-4805	THE HONOLULU ADVERTISER PO BOX 30210 HONOLULU HI 96820-0210	
7	ADVERTISER/CLIENT NUMBER						

25604800000011010980858719620002094200020942000000000000000008

PLEASE DETACH AND RETURN UPPER PORTION WITH YOUR REMITTANCE

10	DATE	11	AD NUMBER	12	13	14	DESCRIPTION-OTHER COMMENTS/CHARGES	15	SAU SIZE	16	BILLED UNITS	17	TIMES RUN	18	RATE	19	GROSS AMOUNT	20	NET AMOUNT
09/28							BALANCE FORWARD												.00
10/18			ADVS/NO UP 0000262898				DOT/MAN LAND SEA WRAP	1	2X	5.00=	10.00							200.00	
11/01							HAWAII STATE TAX												9.42

HARBORS DIVISION

09 NOV -6 P1:34

09 NOV -6 P2:51

ENGINEERING BR.
DEPT. OF TRANSPORTATION
HARBORS DIVISION

SUMMARY OF ACCOUNT AGING OF PAST DUE AMOUNTS

521™

21	CURRENT NET AMOUNT	22	30 DAYS	60 DAYS	OVER 90 DAYS	*UNAPPLIED ACCOUNT	23	TOTAL AMOUNT DUE
	209.42		.00	.00	.00			209.42

The Honolulu Advertiser

P.O. Box 30210, Honolulu, Hawaii 96820-0210
Phone 808-525-8000 Fed. Tax ID #99-0153143

*UNAPPLIED AMOUNTS ARE INCLUDED IN TOTAL AMOUNT DUE

24	INVOICE NUMBER	25	BILLING PERIOD	6	BILLED ACCOUNT NUMBER	7	ADVERTISER/CLIENT NUMBER	2	ADVERTISER/CLIENT NAME
0002646288		09/28/09-11/01/09		604800				HS DEPT TRANS-HARBO	

APPENDIX J

SUMMARY OF INSPECTIONS

**Summary of Inspection findings for 2009
Kalaeloa Harbor**

Tenant	Significant Findings	Actions Taken During Inspection
AES KALAELOA VENTURE LLC	<ul style="list-style-type: none"> ✓ Corner drainage and ground cover needs solution ✓ Leak on coal hopper ✓ Hole in covered secondary containment 	<ul style="list-style-type: none"> ✓ Directed to repair coal hopper ✓ Directed to repair secondary containment
HAWAIIAN CEMENT	<ul style="list-style-type: none"> ✓ Maintenance practices for equipment need improvement 	<ul style="list-style-type: none"> ✓ Directed use of drip pans for hydraulic part storage while working on equipment rather than wood pallet
MARISCO, LTD.	<ul style="list-style-type: none"> ✓ Extensive outdoor material/metals storage ✓ Dry well onsite ✓ Mauka site needs better material storage and waste management ✓ Site has record of non-compliance 	<ul style="list-style-type: none"> ✓ Directed to comply with EPA roadmap to compliance
McCABE, HAMILTON & RENNY (Kalaeloa Harbor)	<ul style="list-style-type: none"> ✓ None. 	<ul style="list-style-type: none"> ✓ None.
SAUSE BROS., INC. (Kalaeloa Harbor)	<ul style="list-style-type: none"> ✓ Barbers Point: leaking equipment occurred outdoors, absorbent still in place 	<ul style="list-style-type: none"> ✓ Directed to maintain all vehicle servicing activity indoors and conduct more frequent vehicle service to deter leaking

APPENDIX K
SMALL MS4 OUTFALL MAP

APPENDIX L

OUTFALL RECONNAISSANCE INVENTORY REPORTS

EKNA 2558-06R#
September 19, 2009

Kalaeloa Harbor storm drain outfalls were examined today from the Harbors Division boat. Weather was partly cloudy with light to moderate trade winds. Charles Schuster (EKNA Services, Inc.) and Richard Min (Harbors Division Environmental Section) entered the water at approximately 9:00 a.m.

Due to obstructions (fuel barge at Pier 6, spill boom and pipes under the pier), only outfalls F-01 through F-04, BP-01 through BP-05, and BP-20 through BP-24 were able to be seen. No inappropriate discharge was noted at any of the outfalls seen, and the pier aprons were dry. The inspection boat left Harbor waters at approximately 10:30 a.m.

Pier aprons mauka of Piers 5-7 were inspected and the following conditions were noted.

McCabe, Hamilton and Renny have two, 600-gallon offroad diesel tanks on pallets outside the Pier Shed. Their personnel onsite who stated they had very recently moved these out of the shed. We noted the SPCC lower applicability limit of 1,320 gallons aggregate storage; the McCabe employees stated they were aware of the regulation.

An oil spill appears to have occurred from midway along the makai face of the pier shed, extending to the trench drain closest to the Pier 5 face, a distance of several hundred feet, see Photo 1. Photo 2 shows where the spill crossed the trench drain. Although the spill seems to have been cleaned from the pier apron surface using crushed coral or coral sand as a blotter, in the vicinity of the trench drain nearest the pier face the blotter has not been completely removed, photo 3. A considerable volume of blotter material, stained with oil, remains in the trench drains, and the grates should be removed and the drain cleaned of all this material.

The four trench drains on the aprons of Piers 5-7 were inspected. Some lengths of these, particularly the trench furthest from the pier face, had considerable sand blown in and all should be cleaned so that this material is not soon washed into the Harbor.

There were three large (about 40 feet tall) piles of crushed rock on Piers 5-6 which were being loaded into trucks and hauled from the piers, see photo 4. Although the trench drain beneath the crushed rock piles was protected by used conveyor belting, it is a near certainty that some gravel will end up in the trench drain. All trench drains beneath the gravel piles and nearby should be carefully examined after the gravel is gone and the responsible company made to clean the drains to the satisfaction of Harbors Division.

Between the two mauka gravel piles, runoff or drainage from the gravel has left a several-square-yard area of mud consisting of crushed rock fines and runoff water, see photo 5. This area should be cleaned and re-inspected after the gravel piles are gone to ensure the area is adequately cleaned.

The coal conveyor trench covers were off the trench during the site visit. The floor of the conveyor trench is covered with coal dust through much of its length, see photo 6. Since the conveyor trench discharges to the harbor at two locations, coal dust is certain to be flushed into the harbor if it is not removed from the trench. The conveyor operator should be contacted to clean out the conveyor trench.

The trench on either side of both coal and cement loader rails is nearly full of coal dust for most of its length, see photo 9 18 09 BP 5. The dust will very likely be washed into the harbor during the next significant rain. The parties responsible for coal and cement offloading should be contacted and instructed to adequately clean the areas next to the crane rails, followed by verification inspection.

An area of cement spatter immediately next to the pier face was observed along Pier 6, source unknown, see photo 7. Since the bulk cement offloading system does not operate in this area, it is speculated that a cement truck was washed out at the pier face. It is suggested the perpetrator be made to remove remnant spattering without discharging it into the harbor.

Near the cement conveyor/office at the beginning of Pier 7, trench drain grates are heavily coated with cement which should be removed from the grates, photo 8.

Grate inlet DI 16-1 near the cement conveyor/office is covered with coal dust and this area, including the inlet and drain beneath, should be cleaned and the inlet flow restored (no photo).

Due to access restrictions and ongoing operations associated with the fuel barge, apron areas of Pier 7 were not inspected.

Charles Schuster
EKNA Services, Inc., 615 Piikoi St., #300, Honolulu, HI 96814-3139
ph. 591-8553 ext. 207 fax 593-8551

attachments: observation photos



Photo 1: Residue from oil spill extending from Pier Shed towards Harbor



Photo 2: Oil spill residue across trench drain, drain interior has oily sand



Photo 3, sand used a oil spill blotter not cleaned up, also present in trench drain



Photo 4, three large piles of sand being loaded into trucks to be transported from the piers

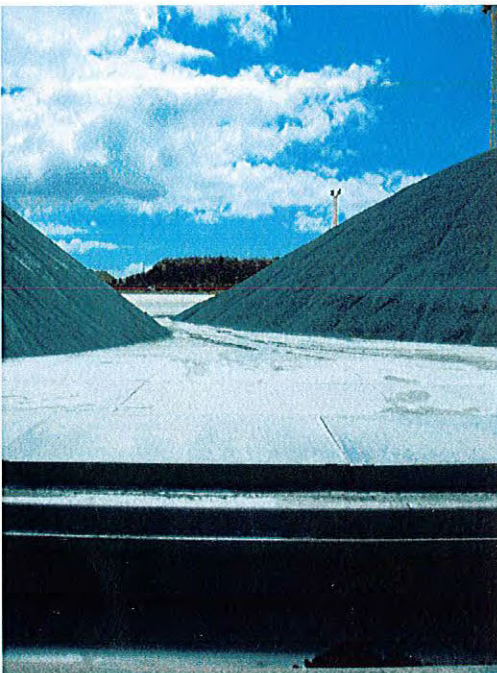


Photo 5, fines and water from sand stockpile, seeping to coal conveyor trench

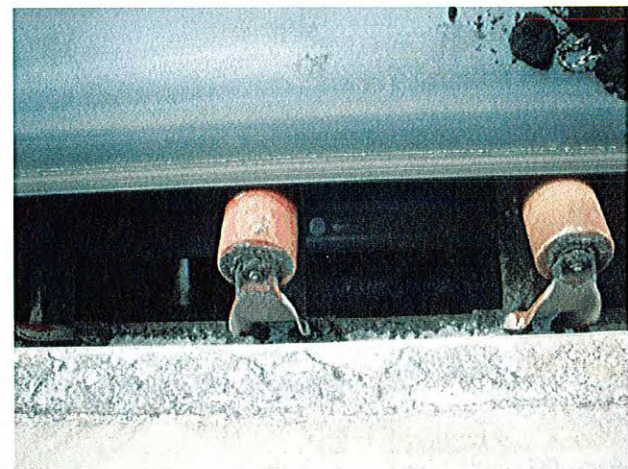


Photo 6, fines and coal dust in conveyor trench



Photo 7, cement spatter covers pier pavement and bollard



Photo 8, trench drain grates caked with cement

APPENDIX M

HARBORS EMPLOYEE TRAINING RECORDS

ENVIRONMENTAL TRAINING

Date: 12-22-09 Location: KALAELOA BARBERS POINT HARBOR

Topics: Stormwater BMP's, Fuel Handling, Spill Response Clean-up/Prevention, Universal waste, and Hazardous Communication

	Name (Print)	Signature	Position Title
1	REGINALD HESTER	Reginald Hester	LABORER II
2	Calvin K Woo	CKW	" "
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ENVIRONMENTAL TRAINING

Date: 11-25-09

Location: OAHU 3RD FLT CONF #1

Topics: Stormwater BMP's, Fuel Handling, Spill Response Clean-up/Prevention, Universal waste, and Hazardous Communication

	Name (Print)	Signature	Position Title
1	Kenneth Zane	Kenneth Zane	LABORER II
2	Wendell Kahalekomi Jr.	Wendell Kahalekomi Jr.	Sweeper Oper.
3	Dean Rita	Dean Rita	General Laborer II
4	WINFIELD E. MIKE	Winfield E. Mike	GENERAL LABORER II
5	Wesley K. Jones	Wesley K. Jones	Sup. I
6	Jerome Radona	Jerome Radona	LABORER II
7	Sandra Nih	Sandra Nih	Sweeper Oper.
8	Don Vasilewman	Don Vasilewman	mechanic & repair sup II
9	Nelson Boyce	Nelson Boyce	GL II
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ENVIRONMENTAL TRAINING

Date: 12-26-04 Location: BOSTON HON.

Topics: Stormwater BMP's, Fuel Handling, Spill Response Clean-up/Prevention, Universal waste, and Hazardous Communication

	Name (Print)	Signature	Position Title
1	Nestor Sagayadoro	Nestor Sagayadoro	Janitor II
2	WALTER AGUIRRE	WALTER AGUIRRE	JANITOR II
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for 2007

ENVIRONMENTAL TRAINING

9-4 - ~~August 31~~, 2007

Topics: Stormwater BMP's, Fuel Handling, Bloodborne Pathogens, Spill Response Clean-up/Prevention,
Universal Waste, and Hazard Communication

	Name (Print)	Signature	Position Title
1	Sam Manly	Sam Manly	
2	Myles S. Umade	Myles S. Umade	
3	Sanford Menei	Sanford Menei	
4	MARIO ARGONES	Mario Argones	
5	CLAYTON NISHIGATA	Clayton Nishigata	
6	CLAY NISHIGATA	Clay Nishigata	
7	Nelson Kado	Nelson Kado	
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For 2007

ENVIRONMENTAL TRAINING

August 31, 2007

Topics: Stormwater BMP's, Fuel Handling, Bloodborne Pathogens, Spill Response Clean-up/Prevention,
Universal Waste, and Hazard Communication

	Name (Print)	Signature	Position Title
1	Jerome Radon	Jerome Radon	Laborer II
2	Anthony M. DeLaCruz	Anthony M. DeLaCruz	Laborer II
3	Charles Rothenberger	Charles Rothenberger	Laborer II
4	Gregory K. Gurnea	Gregory K. Gurnea	Maint. & Repair sup. I.
5	Sandra Nih	Sandra Nih	Driver
6	Kenneth K. Zane	Kenneth K. Zane	Labor II
7	Willi Teramoto	Willi Teramoto	Labor II
8	CURTIS KURAHARA	curtis m. Kurahara	EQUIPMENT OPERATOR
9	Antonio J. Rivera	Antonio J. Rivera	Laborer II
10	HINFIELD Z. MIKE	Wendell Z. Hinfeld	GENERAL LABORER II
11	Don Kaulenamaki	Don Kaulenamaki	Maint. & Repair supervisor II
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For 2007

ENVIRONMENTAL TRAINING

August 31, 2007

Topics: Stormwater BMP's, Fuel Handling, Bloodborne Pathogens, Spill Response Clean-up/Prevention,
Universal Waste, and Hazard Communication

	Name (Print)	Signature	Position Title
1	Jeanette Souza	Jeanette Souza	Janitor II
2	Wendell F. Takahashi	Wendell F. Takahashi	Sweeper Oper.
3	Richard Corucho	Richard Corucho	Refuse Collector
4	PRODEWID MESTAC	Prodewid Mestac	Janitor II
5	Richard Saito	Richard Saito	SANITOR II
6	YOSHIAKI NAITO	Yoshiake Naito	JANITOR II
7	Duwayne Macalino	Duwayne Macalino	Janitor II
8	NESTOR GURON	Nestor Guron	JANITOR II
9	Michael K Miller	Michael K Miller	"
10	VANDY Sibounhmadang	Vandy Sibounhmadang	"
11	DEREK BUENDIA	Derek Buendia	MAINT MECH.
12	CLIFFORD ONTAI	Clifford Ontai	BUILD MAINT,
13	David Markle	David Markle	OM
14	Jeff Mun	Jeff Mun	Metro Mech
15	MERYLN FRIAS	Meryln Frias	REFUSE COLL
16	RODNEY YAMANE	Rodney Yamane	PAINTER I
17	Jon McKee	Jon McKee	MAINT. MECH II
18	Mitchel Sonan	Mitchel Sonan	Heavy Truck Driver
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OATH

For 2007

ENVIRONMENTAL TRAINING

January 16, 2008

Topics: Stormwater BMP's, Fuel Handling, Bloodborne Pathogens, Spill Response Clean-up/Prevention,
Universal waste, and Hazardous Communication

	Name (Print)	Signature	Position Title
1	RAMON SOTO	Ramon Soto	Plumber II
2	Dean Rita	Dean Rita	General Labor II
3	Steven Hoshino	Steven Hoshino	"
4	LAYNE SUNADA	Layne Sunada	AUTOMECHANIC I
5	ROBERT CAYNE	Robert Cayne	PAINT 2
6	DEAN IBANA	Dean Ibanez	WHARF MAINTENANCE WORKER
7	MAX DEL ROSARIO	Max Del Rosario	AUTOMOTIVE MECHANIC
8	Preza, Aurelio	Ali	General Laborer II
9	NELSON BOYCE	Nelson Boyce	G. L. II
10	DAVID SQUEVES	David Squeves	WHARF MAINT W.S
11	Antonio Paguyo	Antonio Paguyo	Electrician
12	Guy Yoshida	Guy Yoshida	Electrician
13	PETER PRUSKI	P. Pruski	PAINTER
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For 2007

ENVIRONMENTAL TRAINING

February 11, 2008

Topics: Stormwater BMP's, Fuel Handling, Bloodborne Pathogens, Spill Response Clean-up/Prevention,
Universal waste, and Hazardous Communication

	Name (Print)	Signature	Position Title
1	Dennis Takayasu	Dennis Takayasu	Const. & Maint. Supt.
2	Dow Mirona	Dow Mirona	Storekeeper
3	MICHAEL K. FELIX	Michael K. Felix	WHARF MAINT. SYP.
4	Elmer Hirono	Elmer Hirono	Gen. Constr. & Maint. Supv.
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ENVIRONMENTAL TRAINING

Date: 1-13-07

Location: KALAELOA BARBERS POINT

Topics: Stormwater BMP's, Fuel Handling, Spill Response Clean-up/Prevention, Universal waste, and Hazardous Communication

	Name (Print)	Signature	Position Title
1	REGINALD AUSTIN WALKER	[Signature]	LABORER II
2	Logan Williams IV	[Signature]	HARBOR AGENT III
3	Calvin Woo	[Signature]	Laborer 2
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ENVIRONMENTAL TRAINING

September 14, 2007

Topics: Stormwater BMP's, Fuel Handling, Bloodborne Pathogens, Spill Response Clean-up/Prevention,
Universal waste, and Hazardous Communication

	Name (Print)	Signature	Position Title
1	REGINALD A. KAWAELDT	[Signature]	GEN. LABOR. II
2	LOGAN J. WILLIAMS IV	[Signature]	HARBOR AGENT III
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APPENDIX N

WASTE DISPOSAL RECEIPTS

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 521882

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 12/16/09 Time 1/0:07:50 /08:10
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 34740 Tare: 31160 Net: 3580 lbs
1.79 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77
COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

This certifies to the accuracy and identity of the quantity & commodity shown, is suitable for all deliveries when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

(AFC)

John Lytle #4974

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 522167

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 12/17/09 Time 1/0:08:08 /08:36
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 37620 Tare: 33380 Net: 4240 lbs
2.12 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77
COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

This certifies to the accuracy and identity of the quantity & commodity shown, is suitable for all deliveries when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

(HARRISON CAR)

John Lytle #4974

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 522166

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-8490
PO/Job #:
Date: 12/17/09 Time 1/0:08:04 /08:35
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 16680 Tare: 15060 Net: 1620 lbs
0.81 Tons @ \$33.00/tn \$ 132.00
Fees: 0.00
Tax 6.22

TOTAL \$138.22
COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

This certifies to the accuracy and identity of the quantity & commodity shown, is suitable for all deliveries when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

SWEETPEA WASTE

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 521443

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 12/14/09 Time 1/0:08:13 /09:31
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 45180 Tare: 30640 Net: 14540 lbs
7.27 Tons @ \$33.00/tn \$ 239.91
Fees: 0.00
Tax 11.30

TOTAL \$251.21
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 519837

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-8490
PO/Job #:
Date: 12/07/09 Time 1/0:08:36 /08:46
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 16940 Tare: 15400 Net: 1240 lbs
0.52 Tons @ \$33.00/tn \$ 132.00
Fees: 0.00
Tax 6.22

TOTAL \$138.22
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

SCAR 88-2-36 "ROBIN II" SAM

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 518677

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTA /DEPTH-8490
PO/Job #:
Date: 11/25/09 Time I/O:07:17 /07:33
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 18400 Tare: 14860 Net: 3540 lbs
1.77 Tons @ \$33.00/tn \$ 132.00
Fees: 0.00
Tax 6.22

TOTAL \$138.22
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3515
Registered Int'l's RD1

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 516311

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTA /DEPTH-4974
PO/Job #:
Date: 11/10/09 Time I/O:09:10 /09:25
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 53620 Tare: 31540 Net: 22080 lbs
11.04 Tons @ \$33.00/tn \$ 364.32
Fees: 0.00
Tax 17.17

TOTAL \$381.49
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348
Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 516111

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTA /DEPTH-4974
PO/Job #:
Date: 11/09/09 Time I/O:10:45 /11:01
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 48800 Tare: 31800 Net: 15000 lbs
7.50 Tons @ \$33.00/tn \$ 247.50
Fees: 0.00
Tax 11.66

TOTAL \$259.16
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348
Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 517317

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTA /DEPTH-8490
PO/Job #:
Date: 11/17/09 Time I/O:09:53 /10:35
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 17420 Tare: 15040 Net: 2380 lbs
1.19 Tons @ \$33.00/tn \$ 132.00
Fees: 0.00
Tax 6.22

TOTAL \$138.22
COD Customer: 1 - 1 Not Specified
Notes:

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NO.3348
Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 516818

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTA /DEPTH-8490
PO/Job #:
Date: 11/13/09 Time I/O:08:32 /08:54
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 29880 Tare: 15280 Net: 14600 lbs
7.30 Tons @ \$33.00/tn \$ 240.90
Fees: 0.00
Tax 11.35

TOTAL \$252.25
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348
Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

After Lumber (Wood Bulk)

#8490

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 515584

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 11/05/09 Time 1/0:08:08 /08:32
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 39420 Tare: 33440 Net: 4980 lbs
2.49 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

John Lytle #4974 (HORIZON Can)

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 515401

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 11/04/09 Time 1/0:07:21 /07:40
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 37240 Tare: 31660 Net: 5580 lbs
2.79 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
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Pmt Type: 1 - Charge (Invoice)
Fee codes:

John Lytle #4974 (ACS Can)

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 512991

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 10/20/09 Time 1/0:08:47 /09:16
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 52700 Tare: 31240 Net: 21460 lbs
10.73 Tons @ \$33.00/tn \$ 354.09
Fees: 0.00
Tax 16.68

TOTAL \$370.77

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

John Lytle #4974 SWEEPER Can / MAR 2010

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 513499

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 10/22/09 Time 1/0:08:53 /09:37
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 35180 Tare: 33620 Net: 1560 lbs
0.78 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

John Lytle #4974 (Kewalo Can)

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 511679

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 10/13/09 Time 1/0:07:40 /07:58
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 37060 Tare: 31000 Net: 6060 lbs
3.03 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

John Lytle #4974 SWEEPER Can / ACS Can

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 510558

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 10/05/09 Time 1/0:08:20 /09:49
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1030 - Rock/Dirt
Gross: 45940 Tare: 31360 Net: 14580 lbs
3.29 Tons @ \$33.00/tn \$ 240.57
Fees: 0.00
Tax 11.34

TOTAL \$251.91

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 509081

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 09/24/09 Time 1/0:07:58 /08:31
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 39920 Tare: 33380 Net: 6540 lbs
3.27 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 508858

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 09/23/09 Time 1/0:07:38 /08:00
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 33440 Tare: 31140 Net: 2300 lbs
1.15 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

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STATE OF HAWAII MEASUREMASTER
NO.3515 Registered Int'l's RDI

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 507116

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 09/11/09 Time 1/0:09:18 /10:16
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 59500 Tare: 29960 Net: 29540 lbs
14.77 Tons @ \$33.00/tn \$ 487.41
Fees: 0.00
Tax 22.97

TOTAL \$510.38

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 506335

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 09/08/09 Time 1/0:07:39 /08:03
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 35320 Tare: 31180 Net: 4140 lbs
2.07 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

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Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 505376

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-4974
PO/Job #:
Date: 09/02/09 Time I/O:07:44 /08:04
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 35980 Tare: 31040 Net: 4940 lbs
2.47 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COO Customer: 1 - 1 Not Specified

Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 505106

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-4974
PO/Job #:
Date: 09/01/09 Time I/O:08:17 /08:39
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 37880 Tare: 30620 Net: 7260 lbs
3.63 Tons @ \$33.00/tn \$ 119.59
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COO Customer: 1 - 1 Not Specified

Notes:

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Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 495016

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-4974
PO/Job #:
Date: 07/09/09 Time I/O:08:44 /09:13
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 35160 Tare: 30000 Net: 5160 lbs
2.58 Tons @ \$33.00/tn \$ 85.14
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COO Customer: 1 - 1 Not Specified

Notes:

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STATE OF HAWAII MEASUREMASTER
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Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 493452

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-4974
PO/Job #:
Date: 07/01/09 Time I/O:07:24 /07:47
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 33160 Tare: 31060 Net: 2100 lbs
1.05 Tons @ \$33.00/tn \$ 34.65
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COO Customer: 1 - 1 Not Specified

Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3515 Registered Int'l's RD1

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 493808

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-4974
PO/Job #:
Date: 07/02/09 Time I/O:08:13 /08:37
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 36820 Tare: 33300 Net: 3520 lbs
2.76 Tons @ \$33.00/tn \$ 91.08
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COO Customer: 1 - 1 Not Specified

Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3515 Registered Int'l's RD1

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 492921

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 06/29/09 Time 1/0:07:47 /08:29
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 39580 Tare: 29840 Net: 9740 lbs
4.87 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3515 Registered Int'l Is RD1

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 490902

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 06/17/09 Time 1/0:08:25 /08:56
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 42980 Tare: 30800 Net: 12180 lbs
6.09 Tons @ \$32.00/tn \$ 194.88
Fees: 0.00
Tax 9.18

TOTAL \$204.06

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l Is MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 489858

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 06/10/09 Time 1/0:07:11 /07:36
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 32360 Tare: 31060 Net: 1300 lbs
0.65 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
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Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 488369

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 06/02/09 Time 1/0:07:39 /07:53
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 37460 Tare: 31240 Net: 6220 lbs
3.11 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

This certifies to the accuracy and identity of the quantity & commodity shown, is suitable for all deliveries when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l Is MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 488169

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 06/01/09 Time 1/0:07:52 /08:08
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 40600 Tare: 30440 Net: 10160 lbs
5.08 Tons @ \$32.00/tn \$ 162.56
Fees: 0.00
Tax 7.66

TOTAL \$170.22

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l Is MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 486513

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 05/19/09 Time I/O:10:52 /11:06
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 34460 Tare: 31920 Net: 3140 lbs
1.57 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 483385

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 05/06/09 Time I/O:10:23 /10:44
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 33620 Tare: 31420 Net: 2400 lbs
1.20 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 481182

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 04/23/09 Time I/O:08:02 /08:35
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 37660 Tare: 33300 Net: 4360 lbs
2.18 Tons @ \$32.00/tn \$ 160.00
Fees:MT-2 30.00
Tax 8.95

TOTAL \$198.95

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes: MT-Mattress

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 480548

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 04/20/09 Time I/O:07:44 /08:13
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 43440 Tare: 30600 Net:12840 lbs
6.42 Tons @ \$32.00/tn \$ 205.44
Fees: 0.00
Tax 9.68

TOTAL \$215.12

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 479841

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 04/14/09 Time I/O:11:17 /11:39
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 38160 Tare: 30040 Net: 8120 lbs
4.06 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3515 Registered Int'l's RD1

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAILANAE, HI 96792

Ticket #: 502391

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-4974
PO/Job #:
Date: 08/20/09 Time 1/0:08:05 /08:26
Cir #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 38940 Tare: 33300 Net: 5640 lbs
2.82 Tons @ \$83.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Intls MO

Print Type: 1 - Charge (Invoice)
Fee codes:

John Light (Horizon Can #4974)

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAILANAE, HI 96792

Print Type: 1 - Charge (Invoice)
Fee codes:

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-4974
PO/Job #:
Date: 08/20/09 Time 1/0:08:05 /08:26
Cir #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 38940 Tare: 33300 Net: 5640 lbs
2.82 Tons @ \$83.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Intls MO

Print Type: 1 - Charge (Invoice)
Fee codes:

John Light (ACAS CAN) #4974

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAILANAE, HI 96792

Ticket #: 484004

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-9272
PO/Job #:
Date: 05/07/09 Time 1/0:07:32 /07:56
Cir #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 34460 Tare: 30940 Net: 3520 lbs
1.76 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Intls MO

Print Type: 1 - Charge (Invoice)
Fee codes:

John Light (BULK LUMBER)

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAILANAE, HI 96792

Ticket #: 484420

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-9272
PO/Job #:
Date: 05/08/09 Time 1/0:07:36 /08:19
Cir #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 48000 Tare: 28740 Net: 19260 lbs
9.13 Tons @ \$32.00/tn \$ 292.16
Fees: 0.00
Tax 13.77

TOTAL \$305.93
COD Customer: 1 - 1 Not Specified
Notes:

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DIVISION OF MEASUREMENT STANDARDS

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Intls MO

Print Type: 1 - Charge (Invoice)
Fee codes:

John Light (SWEEPER CAN)

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAILANAE, HI 96792

Print Type: 1 - Charge (Invoice)
Fee codes:

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTH /DEPTH-9272
PO/Job #:
Date: 05/08/09 Time 1/0:07:36 /08:19
Cir #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 48000 Tare: 28740 Net: 19260 lbs
9.13 Tons @ \$32.00/tn \$ 292.16
Fees: 0.00
Tax 13.77

TOTAL \$305.93
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Intls MO

Print Type: 1 - Charge (Invoice)
Fee codes:

John Light (SWEEPER CAN)

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 502095

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 08/19/09 Time 1/0:07:59 /08:20
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 46980 Tare: 30540 Net: 16440 lbs
8.22 Tons @ \$33.00/tn \$ 271.26
Fees: 0.00
Tax 12.78

TOTAL \$284.04

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 500004

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 08/05/09 Time 1/0:09:14 /09:34
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 36160 Tare: 31340 Net: 4820 lbs
2.41 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 500662

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-4974
PO/Job #:
Date: 08/10/09 Time 1/0:07:08 /07:27
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 35980 Tare: 31020 Net: 4960 lbs
2.48 Tons @ \$33.00/tn \$ 165.00
Fees: 0.00
Tax 7.77

TOTAL \$172.77

COD Customer: 1 - 1 Not Specified
Notes:

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Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 478301

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 04/03/09 Time 1/0:07:07 /07:29
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 32940 Tare: 31180 Net: 1760 lbs
0.88 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 477520

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 03/30/09 Time 1/0:07:55 /08:15
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 38540 Tare: 31040 Net: 7500 lbs
3.75 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
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Pmnt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 476223

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 03/20/09 Time I/O:07:42 /08:13
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 39200 Tare: 29920 Net: 9280 lbs
4.64 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
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Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 476046

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 03/19/08 Time I/O:09:59 /10:13
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 35260 Tare: 31460 Net: 3800 lbs
1.90 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
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Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 474332

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 03/10/09 Time I/O:07:36 /08:00
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1030 - Rock/Dirt
Gross: 49780 Tare: 30440 Net: 19340 lbs
9.67 Tons @ \$32.00/tn \$ 309.44
Fees: 0.00
Tax 14.58

TOTAL \$324.02
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 473515

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 03/05/09 Time I/O:07:16 /07:38
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 34200 Tare: 30320 Net: 3880 lbs
1.94 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
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Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 471220

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 02/20/09 Time I/O:08:00 /08:30
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 51800 Tare: 30420 Net: 21380 lbs
10.69 Tons @ \$32.00/tn \$ 342.08
Fees: 0.00
Tax 16.12

TOTAL \$358.20
COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
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Pmt Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 470732

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 02/18/09 Time 1/0:07:45 /08:06
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 39280 Tare: 33640 Net: 5440 lbs
2.72 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3948. Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 469902

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 02/11/09 Time 1/0:11:32 /12:12
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 36980 Tare: 30320 Net: 6660 lbs
3.33 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3515 Registered Int'l's RD1

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 469126

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 02/06/09 Time 1/0:09:33 /10:20
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 44180 Tare: 31520 Net: 12660 lbs
8.33 Tons @ \$32.00/tn \$ 202.56
Fees: 0.00
Tax 9.54

TOTAL \$212.10

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3515 Registered Int'l's RD1

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 467497

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 01/29/09 Time 1/0:07:30 /07:53
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 35860 Tare: 30360 Net: 5500 lbs
2.75 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

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STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 467609

Bill To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 01/29/09 Time 1/0:10:52 /11:13
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 35480 Tare: 31340 Net: 4140 lbs
2.07 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

This certifies to the accuracy and identity of the quantity & commodity shown, is suitable for all deliveries when sealed by a measurmaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 466006

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 01/21/09 Time 1/0:10:11 /10:33
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 31780 Tare: 30440 Net: 1340 lbs
0.67 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

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identity of the quantity & commodity
shown, is suitable for all deliveries
when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 466502

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 01/23/09 Time 1/0:09:55 /10:13
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 34360 Tare: 30300 Net: 4060 lbs
2.03 Tons @ \$32.00/tn \$ 160.00
Fees: 0.00
Tax 7.54

TOTAL \$167.54

COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

This certifies to the accuracy and
identity of the quantity & commodity
shown, is suitable for all deliveries
when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 466766

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 01/26/09 Time 1/0:09:11 /09:11
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 43180 Tare: 30560 Net: 12620 lbs
6.31 Tons @ \$32.00/tn \$ 201.92
Fees: 0.00
Tax 9.51

TOTAL \$211.43

COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

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identity of the quantity & commodity
shown, is suitable for all deliveries
when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 464419

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 01/12/09 Time 1/0:08:26 /09:07
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 42360 Tare: 30060 Net: 12300 lbs
6.16 Tons @ \$32.00/tn \$ 197.12
Fees: 0.00
Tax 9.29

TOTAL \$206.41

COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

This certifies to the accuracy and
identity of the quantity & commodity
shown, is suitable for all deliveries
when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:

PVT LAND COMPANY LTD.
87-2020 FARRINGTON HWY.
WAIANAE, HI 96792

Ticket #: 466233

B111 To: DEPT. OF TRANS.-HARBORS DIV.
Haul Acct/Veh #: DEPTHA /DEPTH-9272
PO/Job #:
Date: 05/18/09 Time 1/0:07:47 /08:07
Clr #: 90003 - Honolulu Harbor, Kewalo B

Material: 1020 - Mixed Waste/Demo
Gross: 48460 Tare: 30320 Net: 18140 lbs
8.07 Tons @ \$32.00/tn \$ 258.24
Fees: 0.00
Tax 12.17

TOTAL \$270.41

COD Customer: 1 - 1 Not Specified
Notes:

STATE OF HAWAII CERTIFICATE OF MEASURES
DIVISION OF MEASUREMENT STANDARDS

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when sealed by a measuremaster.

STATE OF HAWAII MEASUREMASTER
NO.3348 Registered Int'l's MD

Print Type: 1 - Charge (Invoice)
Fee codes:



Unitek Solvent Services, Inc.

T5106505

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	09-46	T5106505

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
11/20/09	BM	REG. 90004007	COD

Page 1 of 1

B	S OF HI-HARBOR DIVISION	L	700 Fort St., Pier 11 Gallery	L	LOCATIONS	GROUNDS UNIT
I		L		L		DRIVER: SAM/8490
L		L		L		
T	HONOLULU	L	HI	L		
O	96813	L		L		

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5003 Passenger/Light Truck, On Rim	Each	9	9	\$3.75	\$33.75
5002 Passenger/Light Truck, Off Rim	Each	17	17	\$1.80	\$30.60
5000 Motorcycle/Mini Off-Rim	Each	2	2	\$1.05	\$2.10

I hereby certify that this is an
ORIGINAL INVOICE.
Re Charles 11/20/09
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.

I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.

PRINT NAME: STEVENSON SAMUEL

CUSTOMER SIGNATURE X *[Signature]*

SUB-TOTAL INVOICE AMOUNT

\$66.45

SALES TAX @ 4.712 %

\$3.13

INVOICE TOTAL

\$69.58

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY



Unitek Solvent Services, Inc.

T5106143

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	09-39	T5106143

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
09/30/09	RM		Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	GROUNDS UNIT DRIVER: SAM/8490
--	---	--	----------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5004 Truck/Bus, 8.25<12, Off Rim	Each	2	2	\$9.10	\$18.20
5003 Passenger/Light Truck, On Rim	Each	8	8	\$3.75	\$30.00
5002 Passenger/Light Truck, Off Rim	Each	26	26	\$1.80	\$46.80
5000 Motorcycle/Mini Off-Rim	Each	7	7	\$1.05	\$7.35

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature] 01/20/10
Authorized Signature

CONTRACT SECTION

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PRINT NAME: STEVENSON SAMUEL

CUSTOMER SIGNATURE X *[Signature]*

SUB-TOTAL INVOICE AMOUNT

4.712

\$102.35

SALES TAX @ _____ %

\$4.82

INVOICE TOTAL

\$107.17

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

credit card

107.17

☒ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # *per phone* AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY

[illegible]

HARBORS DIVISION MAINTENANCE
48 SAND ISLAND ROAD
HONOLULU, HI 96819
PHONE: 808 832-3845 FAX: 808 832-3843

**State of Hawaii
Department of
Transportation**

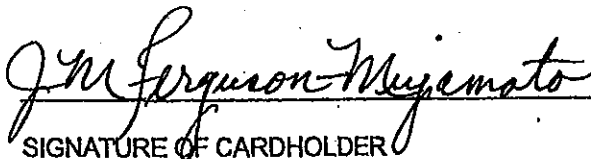
To:	UNITEK	From:	Harbors Division, Maintenance
Fax:	673-3234	Pages:	2
Phone:	6828284	Date:	
Re:	P-Card Order		Refer to Jackie for P-Card Number

PLEASE CALL TO CONFIRM ORDER AND OBTAIN THE MASTERCARD CHARGE NUMBER.

Please find attached our order for the State of Hawaii, Department of Transportation. This order for the estimated amount of \$ 500.00 will be charged to our First Hawaiian Bank MasterCard. Prior to processing our order, please contact the person below to confirm the order and to obtain the MasterCard number.

CREDIT CARD INFORMATION/ BILLING INFORMATION:

CARDHOLDERS NAME: J.M. FERGUSON-MIYAMOTO
BILLING ADDRESS: 48 SAND ISLAND RD.
BILLING CITY/STATE/ZIP: HONOLULU, HI 96819
EXPIRATION DATE OF CARD: 07/10 PHONE NUMBER: 832-3845


SIGNATURE OF CARDHOLDER

DATE

TO BE GIVEN TO UNITEK WHEN YOU TAKE THE TIRES



Unitek Solvent Services, Inc.

T5105527

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
	587-1961	8324	09-26

INVOICE
NUMBER

T5105527

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
07/01/09	EM	60233697	Net 30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION			L O C A T I O N	DRIVER: SAMUEL	
	700 Fort St., Pier 11 Gallery				LIC. PL. 8490	
	HONOLULU	HI	96813			

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5003 Passenger/Light Truck, On Rim	Each	14	14	\$3.75	\$52.50
5002 Passenger/Light Truck, Off Rim	Each	50	50	\$1.80	\$90.00

Bal Due 157.96
 IN 7/1/09
 Acc't DK

CONTRACT SECTION

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PRINT NAME: STEVENSON, SAMUEL

CUSTOMER SIGNATURE

SUB-TOTAL INVOICE AMOUNT

\$142.50

4.712%

SALES TAX @ _____%

\$6.71

INVOICE TOTAL

\$149.21

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY



Unitek Solvent Services, Inc.

T5104899

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

INVOICE
NUMBER

T5104899

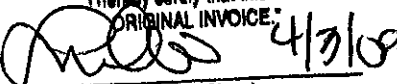
ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
	587-1961	8324	09-13

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
04/03/09	EM	60233697	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	GROUNDS UNIT
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	26	26	\$1.80	\$46.80
5003 Passenger/Light Truck, On Rim	Each	5	5	\$3.75	\$18.75
5004 Truck/Bus, 8.25<12, Off Rim	Each	1	1	\$9.10	\$9.10
5000 Motorcycle/Mini Off-Rim	Each	4	4	\$1.05	\$4.20

"I hereby certify that this is an
ORIGINAL INVOICE."

Authorized Signature

CONTRACT SECTION

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PRINT NAME: STEVENSON SAMUEL

CUSTOMER SIGNATURE X 

SUB-TOTAL INVOICE AMOUNT

4.712

\$78.85

SALES TAX @ _____ %

\$3.72

INVOICE TOTAL

\$82.57

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY



Unitek Solvent Services, Inc.

75104769

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	09-11	75104769

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
03/17/09	EM	REQ. PO # 90002805	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	GROUNDS UNIT DRIVER: SANDY
--	---	--	-------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	28	28	\$1.80	\$50.40
5000 Motorcycle/Mini Off-Rim.	Each	13	13	\$1.05	\$13.65
5003 Passenger/Light Truck, On Rim	Each	11	11	\$3.75	\$41.25

Revised 3/17/09

CONTRACT SECTION

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CUSTOMER SIGNATURE X *[Signature]*

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.712 %

\$105.30

\$4.96

INVOICE TOTAL

\$110.26

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION-MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HI 96709

**PURCHASE
ORDER NO.**

60233697

March 20, 2009

Date _____

Deliver Before _____

DELIVERY ADDRESS

BILLING ADDRESS

**48 SAND ISLAND ROAD
HONOLULU, HAWAII 96819**

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

QUAN.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
		QUARTERLY DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZES. FROM VARIOUS COMMERCIAL HARBORS PURCHASE ORDER REQUIRED/NOT A SINGLE TRANSACTION IN COMPLIANCE W/HRS 103D-305, ACT 216 ORIGINAL & 3 COPIES OF INVOICE ARE REQUIRED FOR PAYMENT	500.00	

DON KAULEINAMOKU

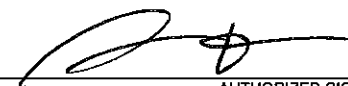
832-3848

REQUISITIONER

TELEPHONE

**VOUCHER
NUMBER**

AUTHENTICATED BY:



AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

REQUISITION NO.

FOR DEPARTMENT USE ONLY

VENDOR

NUMBER	SFX
XXXXXXXXXXXX	XX
237880-00	

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA
XX	XX	X	XX	XX	XX	XXXX	XXXX	XXXXXXXX	XX	XX	XXXXXXXXXXXX	XX	XX	XX	XXXXXXXXXXXX
01	621	S	09	040	D	7145	6300	P00110	60	859	500.00				

COPY # 1 - VENDOR

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION-MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HI 96709

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**PURCHASE
ORDER NO.**

60233697

March 20, 2009

Date

Deliver Before

DELIVERY ADDRESS

BILLING ADDRESS

**48 SAND ISLAND ROAD
HONOLULU, HAWAII 96819**

QUAN.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
		QUARTERLY DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZES. FROM VARIOUS COMMERCIAL HARBORS PURCHASE ORDER REQUIRED/NOT A SINGLE TRANSACTION IN COMPLIANCE W/HRS 103D-305, ACT 216 ORIGINAL & 3 COPIES OF INVOICE ARE REQUIRED FOR PAYMENT	500.00	

DEPT OF TRANS
HARBORS DIVISION
04/01/09

09 MAR 23 P1:41

DON KAULEINAMOKU

832-3848

REQUISITIONER

TELEPHONE

**VOUCHER
NUMBER**

AUTHENTICATED BY:

AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

REQUISITION NO.	
VENDOR	
NUMBER	SFX
XXXXXXXXXX	XX
237880-00	

FOR DEPARTMENT USE ONLY

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST		ACTUAL COST		M	R	OPT DEPT DATA
XX	XXX	X	XX	XXX	XX	XXXX	XXXX	XXXXXXXX	XX	XX	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XX	X	X	XXXXXXXXXXXX
01	621	S	09	040	D	7145	6300	P00110	60	859	500.00						

COPY # 1 - VENDOR



**Unitek
Solvent Services, Inc.**

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	08-51	T5104120

T5104120

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
12/19/08	BM	Req. # 90002805	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	Grounds unit Driver: Sam / State 8490
--	---	--	--

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	36	36	\$1.80	\$64.80
5003 Passenger/Light Truck, On Rim	Each	6	6	\$3.75	\$22.50
5000 Motorcycle/Mini Off-Rim	Each	13	13	\$1.05	\$13.65

I hereby certify that this is an
ORIGINAL INVOICE.

[Signature] 12/19/08
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEYS FEES.

I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.

I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.

CUSTOMER SIGNATURE X *[Signature]*

SUB-TOTAL INVOICE AMOUNT

\$100.95

SALES TAX @ 4.712 %

\$4.76

INVOICE TOTAL

\$105.71

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER	105.71	<input checked="" type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
Creditcard		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	per phone	AMOUNT \$
INV. #	w/ Jackie	AMOUNT \$
INV. #		AMOUNT \$

ORIGINAL COPY

J.M. Felafuson Myamoto


5421400

DATE 12/17/08		AUTHORIZATION CODE		REFERENCE NO.	
QUANTITY	COMPLETE DESCRIPTION/LICENSE NO. STATE			PRICE	AMOUNT
	ARMY JOCKIE				10.75
SALES DRAFT		Clerk	Dept.		Subtotal
					Tax
					Tips
					Misc.

UNITEK SOLVENT SERVICES
200067436
5510003106
KAPOLEI HI

CARDHOLDER SIGNATURE

X Per phone
Sale confirmed and draft accepted. I agree to perform the obligations set forth in cardholder's agreement with issuer.


First Hawaiian Bank

Total \$

\$105.71

CARDHOLDER COPY



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T5103220

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	08-35	T5103220

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
08/27/08	EM		Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813
----------------------------	---

L O C A T I O N	GROUNDS UNIT DIVISION DRIVER: SANDY
--------------------------------------	--

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5003 Passenger/Light Truck, On Rim	Each	5	5	\$3.25	\$16.25
5002 Passenger/Light Truck, Off Rim	Each	43	43	\$1.55	\$66.65
5000 Motorcycle/Mini Off-Rim	Each	1	1	\$0.90	\$0.90
5004 Truck/Bus, 8.25x12, Off Rim	Each	2	2	\$7.90	\$15.80

"I hereby certify that this is an
ORIGINAL INVOICE" 8/27/08
[Signature]
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X *[Signature]*

SUB-TOTAL INVOICE AMOUNT

\$99.60

SALES TAX @ 4.712 %

\$4.69

INVOICE TOTAL

\$104.29

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____

ORIGINAL COPY



Unitek Solvent Services, Inc.

T5102684

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	08-25	5102684

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
06/20/08	EM	60233392	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	HARBOR DIVISION MAINTENANCE BAS P.O.C. JACKIE
--	---	--	--

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	47	47	\$1.55	\$72.85
5010 4-Wheel/Forklift, Off Rim	Each	3	3	\$3.30	\$9.90

MAC

CONTRACT SECTION	
<p>TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.</p> <p>I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.</p> <p>I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.</p>	
<p>CUSTOMER SIGNATURE X </p>	

SUB-TOTAL INVOICE AMOUNT		\$82.75
SALES TAX @ 4.712 %		\$3.90
INVOICE TOTAL		\$86.65
PAYMENT RECEIVED SECTION		
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY



Unitek Solvent Services, Inc.

T5102466

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	08-21	T5102466

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
05/22/08	BM	60233332	Net30

Page 1 of 1

B I L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	DRIVER: ANTHONY GROUNDS UNIT
---------------------------	---	--------------------------------------	---------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	17	17	\$1.55	\$26.35

CONTRACT SECTION

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CUSTOMER SIGNATURE X

ORIGINAL COPY

SUB-TOTAL INVOICE AMOUNT	\$26.35
SALES TAX @ 4.712 %	\$1.24

INVOICE TOTAL

\$27.59

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	



Unitek Solvent Services, Inc.

T8102154

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	08-17	T8102154

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
04/24/08	EM		Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	
--	---	--	--

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	2	2	\$1.55	\$3.10
5003 Passenger/Light Truck, On Rim	Each	2	2	\$3.25	\$6.50
5006 Truck/Bus, 8.25x12, On Rim	Each	1	1	\$17.55	\$17.55
5003 Passenger/Light Truck, On Rim	Each	3	3	\$3.25	\$9.75
5002 Passenger/Light Truck, Off Rim	Each	3	3	\$1.55	\$4.65

CONTRACT SECTION

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CUSTOMER SIGNATURE X

Charles L. Rothberg

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.712 % \$41.55
\$1.96

INVOICE TOTAL

\$43.51

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

HARBORS DIVISION MAINTENANCE
48 SAND ISLAND ROAD
HONOLULU, HI 96819
PHONE: 808 832-3845 FAX: 808 832-3843

**State of Hawaii
Department of
Transportation**

ATTN: L&A

To: *Unitek Solvent* From: Harbors Division, Maintenance
Fax: Pages: *2*
Phone: Date: *4-2-08*
Re: P-Card Order Refer to Jackie for P-Card Number

PLEASE CALL TO CONFIRM ORDER AND OBTAIN THE MASTERCARD CHARGE NUMBER.

Please find attached our order for the State of Hawaii, Department of Transportation. This order for the estimated amount of \$*500.00* will be charged to our First Hawaiian Bank MasterCard. Prior to processing our order, please contact the person below to confirm the order and to obtain the MasterCard number.

CREDIT CARD INFORMATION/ BILLING INFORMATION:

CARDHOLDERS NAME: J.M. FERGUSON-MIYAMOTO
BILLING ADDRESS: 48 SAND ISLAND RD.
BILLING CITY/STATE/ZIP: HONOLULU, HI 96819
EXPIRATION DATE OF CARD: 07/10 PHONE NUMBER: 832-3845

J.M. Ferguson-Miyamoto *4-2-08*
SIGNATURE OF CARDHOLDER DATE

*please provide copies of the charges.
mail to above address.*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
PURCHASE REQUISITION

COPY

(For Services, Materials, Supplies and Equipment)

Date: 3/25/2008

DELIVER TO: DOT/HARBOR DIVISION/OCG

48 SAND ISLAND ACC. ROAD

HONOLULU, HAWAII 96819

SUGGESTED VENDOR

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HAWAII 96709

Special instructions:

QUANTITY WANTED	UNIT	DESCRIPTION	ESTIMATED		PURCHASE ORDER NO.
			Unit Price	Total Cost	
1	EACH	SEMI-ANNUAL DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZE. PICKED UP FROM VARIOUS PIERS. HARBORS OAHU DISTRICT SANITATION AND GROUND UNIT E.P.A. REQUIREMENT <div style="text-align: center;"> <p>FAX DK</p> <p>4/4/08</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>TRANSACTION DATE _____</p> <p>REQUISITION NO. <u>90002805</u></p> </div> </div>	500.00	\$500.00	DEPT OF TRANS HARBORS DIVISION GROUNDS UNIT 08 MAR 25 A 7:52
		Sub Total		\$500.00	
		Grand Total		\$500.00	

VENDOR	
NUMBER	SFX
XXXXXXXXXXXX	XX

DON KAULEINAMOKU

REQUISITIONER

832-3848

TELEPHONE

RECOMMEND APPROVAL

APPROVED

[illegible]



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T5101868

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	08-12	T5101868

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
03/20/08	BM	60233332	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	GROUNDS UNIT DRIVER: FRED
--	---	--	------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	37	37	\$1.55	\$57.35
5003 Passenger/Light Truck, On Rim	Each	21	21	\$3.25	\$68.25
5004 Truck/Bus, 8.25x12, Off Rim	Each	1	1	\$7.90	\$7.90

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature] 3/20/08
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE *[Signature]*

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.712 % \$133.50 \$6.29

INVOICE TOTAL

\$139.79

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY

Pam. P.O. Del. 4/21/09



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T5101560

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
	587-1961	8324	08-7

INVOICE
NUMBER

T5101560

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
02/14/08	BM	60233332	Net30

Page 1 of 1

B I L L T O	\$ OF HI-HARBOR DIVISION
	700 Fort St., Pier 11 Gallery
	HONOLULU HI 96813

L O C A T I O N	GROUNDS UNIT
	DRIVER: JEROME
	LIC. PLT: STATE 7093

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	38	38	\$1.55	\$58.90

"I hereby certify that this is an
ORIGINAL INVOICE."

Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X

SUB-TOTAL INVOICE AMOUNT

\$58.90

SALES TAX @ 4.712 %

\$2.78

INVOICE TOTAL

\$61.68

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T5101407

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	08-5	T5101407

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
01/29/08	BT	60233332	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813	L O C A T I O N	GROUNDS UNIT - HARBOR DIVISION DRIVER: WENDELL
--	---	--	---

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	45	45	\$1.55	\$69.75
5003 Passenger/Light Truck, On Rim	Each	2	2	\$3.25	\$6.50

I hereby certify that this is an
ORIGINAL INVOICE.
[Signature] 1/29/08
Authorized Signature

CONTRACT SECTION	
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<p>CUSTOMER SIGNATURE X <i>[Signature]</i></p>	

SUB-TOTAL INVOICE AMOUNT		\$76.25
SALES TAX @ 4.712 %		\$3.59
INVOICE TOTAL		\$79.84
PAYMENT RECEIVED SECTION		
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION-MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURPOSE ORD NO.	60233332
Date May 16, 2007	
Deliver Before _____	
DELIVERY ADDRESS	
BILLING ADDRESS	
48 SAND ISLAND ROAD HONOLULU, HAWAII 96819	

DEPT OF TRANSPORTATION
HARBORS DIVISION
MAINTENANCE

07 MAY 18 A7:37

QUAN.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF VARIOUS SIZES OF ABANDONED TIRES. FROM COMMERCIAL HARBORS VARIOUS PIERS PURCHASE ORDER REQUIRED/NOT SINGLE A TRANSACTION IN COMPLIANCE W/HRS 103D-310, ACT 216 ORIGINAL & 3 COPIES OF INVOICE ARE REQUIRED FOR PAYMENT	500.00	

DON KAULEINAMOKU
REQUISITIONER

832-3848
TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:



AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY _____ DATE _____

REQUISITION NO. 07-1008	FOR DEPARTMENT USE ONLY
VENDOR NUMBER XXXXXXXXXXXX SFX XX	
237880-00	

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA
XX	XXX	X	XX	XXX	XX	XXXX	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XX	XX	XXXXXXXXXXXX
01	621	S	07	040	D	7145	6300	P00110	60	859	500.00				

COPY #1 - VENDOR



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID882443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T5100423

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
	587-1961	8324	07-40

INVOICE
NUMBER

T5100423

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
10/01/07	E41	60233332	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION
	700 Fort St., Pier 11 Gallery
	HONOLULU HI 96813

L
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N

grounds unit
Driver: Gregory

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	22	22	\$1.55	\$34.10

I hereby certify that this is an
ORIGINAL INVOICE

[Signature] 10/1/07
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.

I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.

CUSTOMER SIGNATURE X

[Signature]

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.712 %

\$34.10

\$1.61

INVOICE TOTAL

\$35.71

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY

Rem. P.O. Bal. \$464.29



Unitek Solvent Services, Inc.

T599688

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	07-29	T599688

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
07/16/07	BM	60233308	NET 30

B I L L T O	S OF HI-HARBOR DIVISION
	700 Fort St., Pier 11 Gallery
	HONOLULU, HI 96813

L O C A T I O N	GROUNDS UNIT
	DRIVER: FRED

Description	Qty	Unit	Price	Amount
5002 PASSENGER/LIGHT TRUCK OFF RIM	8	EA	\$1.55	\$12.40
5003 PASSENGER/LIGHT TRUCK ON RIM	3	EA	\$3.25	\$9.75
5004 TRUCK/BUS OFF RIM	3	EA	\$7.90	\$23.70
5006 TRUCK/BUS ON RIM	1	EA	\$17.55	\$17.55
5100 AIR CRAFT TIRES	12	EA	\$4.50	\$54.00

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature]
Authorized Signature

Amended Invoice

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X _____

SUB-TOTAL INVOICE AMOUNT

4.712

\$117.40

SALES TAX @ _____ %

\$5.53

INVOICE TOTAL

\$122.93

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____	AMOUNT \$ _____
INV. # _____	AMOUNT \$ _____
INV. # _____	AMOUNT \$ _____

ORIGINAL COPY



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T599688

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	07-29	T599688

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
07/16/07	EM	60233332	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 700 Fort St., Pier 11 Gallery HONOLULU HI 96813
----------------------------	---

L O C A T I O N	GROUNDS UNIT DRIVER: FRED
--------------------------------------	------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	8	8	\$1.55	\$12.40
5003 Passenger/Light Truck, On Rim	Each	3	3	\$3.25	\$9.75
5004 Truck/Bus, 8.25x12, Off Rim	Each	3	3	\$7.90	\$23.70
5006 Truck/Bus, 8.25x12, On Rim	Each	1	1	\$17.55	\$17.55
5100 Air Craft Tires	Each	12	12	\$4.50	\$54.00

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature] 7/16/07
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE *[Signature]*

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.712 %

\$117.40
\$5.01

INVOICE TOTAL

\$122.41

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY

Per P.O. Bal. \$337.49



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T599445

INVOICE
NUMBER

379445

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
	587-1961	8324	07-25

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
06/20/07	BM	60233332	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION
	700 Fort St., Pier 11 Gallery
	HONOLULU HI 96813

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N

MAINTENANCE ~~BASE YARD~~ grounds unit
DRIVER: JEROME/STATE 7093

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	12	12	\$1.55	\$18.60
5003 Passenger/Light Truck, On Rim	Each	6	6	\$3.25	\$19.50

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature]
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X *[Signature]*

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.712 %

\$38.10

\$1.80

INVOICE TOTAL

\$39.90

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T599103

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
	587-1961	8324	07-20

INVOICE
NUMBER

T599103

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
05/14/07	BM	60233308	Net 30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION
	700 Fort St., Pier 11 Gallery
	HONOLULU HI 96813

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N

Grounds Unit
DRIVER: BRIAN HIGA
STATE 8490

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	57	57	\$1.55	\$88.35
5003 Passenger/Light Truck, On Rim	Each	12	12	\$3.25	\$39.00

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature] 5/14/07
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X

[Signature]

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.712 %

\$127.35

\$6.00

INVOICE TOTAL

\$133.35

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY

Perm. P.O. Mail \$ 706.65

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION-MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURCHASE OR 0.	60233332
Date May 16, 2007	
Deliver Before _____	
DELIVERY ADDRESS	
BILLING ADDRESS	
48 SAND ISLAND ROAD HONOLULU, HAWAII 96819	

DEPT OF TRANSPORTATION
HARBORS DIVISION
OAHU DISTRICT

07 MAY 18 A7:37

QUAN.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF VARIOUS SIZES OF ABANDONED TIRES. FROM COMMERCIAL HARBORS VARIOUS PIERS PURCHASE ORDER REQUIRED/NOT SINGLE A TRANSACTION IN COMPLIANCE W/HR 103D-310, ACT 216 ORIGINAL & 3 COPIES OF INVOICE ARE REQUIRED FOR PAYMENT	500.00	

DON KAULEINAMOKU
REQUISITIONER

832-3848
TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:

AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY _____ DATE _____

REQUISITION NO. 07-1008	FOR DEPARTMENT USE ONLY
VENDOR NUMBER XXXXXXXXXXXX	
SFX XX	
237880-00	

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA
XX	XXX	X	XX	XXX	XX	XXXX	XXXX	XXXXXXXX	XXXX	XXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XX	XX	XXXXXXXXXXXXXX
01	621	S	07	040	D	7145	6300	P00110	60	859	500.00				

COPY # 1 - VENDOR

[illegible]

pCard Requisition Checklist

(to be attached to requisition)

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is **MasterCard** accepted for use by vendor without incurring a service/transaction fee?

Will the purchase be a single transaction without **backorders** or **partial payments**?

Are the following items entered on the requisition?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Phone number of vendor.

Fax number of vendor.

Contact person (if applicable).

Name & telephone number of requisitioner.

Recommended Approval of supervisor.

Method for receipt of goods or services
delivery address, pick-up/will call, et al.

Uniform Accounting Code.

Are the SPO purchasing procedures being followed?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Is the requisition amount over **&25.00** and below **\$2499.99**?

If the requisition amount is over **\$1000**,
is a **SPO Form 10** attached with the required 3 quotations?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>

Are **sufficient funds available** for this purchase?

Vendor Name: UNITEK SOLVENT SERVICES, INC.

Requisition Amount: \$500.00

Requisitioner: 

DON KAULEINAMOKU
Sign

Date: May 11, 2007

DO NOT FILL IN BELOW THIS LINE

Requisition No.: _____ (to be assigned)

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION-MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURCHASE
ORDER NO.

60233308

March 30, 2007

Date

Deliver Before

DELIVERY ADDRESS

BILLING ADDRESS

48 SAND ISLAND ROAD
HONOLULU, HAWAII 96819

QUAN.	UNIT	DESCRIPTION	OBJECT	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZES.		500.00	
		FOR COMMERCIAL HARBORS VARIOUS PIERS			
		VENDOR DOES NOT ACCEPT P-CARD			
		IN COMPLIANCE W/HRS 103D-310, ACT 216			
		ORIGINAL & 3 COPIES OF INVOICE ARE REQUIRED FOR PAYMENT			

DON KAULEINAMOKU
REQUISITIONER

832-3848
TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:

AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

REQUISITION NO. 07-956	
VENDOR	
NUMBER XXXXXXXXXX	SFX XX
237880-00	

FOR DEPARTMENT USE ONLY

Paid. 41367

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST		ACTUAL COST		M	R	OPT DEPT DATA
XX	XXX	X	XX	XXX	XX	XXXXX	XXXXX	XXXXXXXXX	XX	XXX	XXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXX	XX	X	X	XXXXXXXXXXXXXX
01	621	S	07	040	D	7145	6300	P00110	60	859	500.00						

COPY # 1 - VENDOR

MasterCard Requisition Checklist

(to be attached to requisition)

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is **MasterCard** accepted for use by vendor without incurring a service/transaction fee?

Will the purchase be a single transaction without **backorders** or **partial payments**?

Are the following items entered on the requisition?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Phone number of vendor.

Fax number of vendor.

Contact person (if applicable).

Name & telephone number of requisitioner.

Recommended Approval of supervisor.

Method for receipt of goods or services
delivery address, pick-up/will call, et al.

Uniform Accounting Code.

Are the SPO purchasing procedures being followed?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Is the requisition amount over **&25.00** and below **\$2499.99**?

If the requisition amount is over **\$1000**,
is a **SPO Form 10** attached with the required 3 quotations?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>

Are **sufficient funds available** for this purchase?

Vendor Name: UNITEK SOLVENT SERVICES, INC.

Requisition Amount: \$500.00

Requisitioner:  DON KAULEINAMOKU
Sign

Date: July 14, 2006

DO NOT FILL IN BELOW THIS LINE

Requisition No.: _____ (to be assigned)

[illegible]

pCard Requisition Checklist

(to be attached to requisition)

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is **MasterCard** accepted for use by vendor
without incurring a service/transaction fee?

Will the purchase be a single transaction
without **backorders** or **partial payments**?

Are the following items entered on the requisition?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Phone number of vendor.

Fax number of vendor.

Contact person (if applicable).

Name & telephone number of requisitioner.

Recommended Approval of supervisor.

Method for receipt of goods or services
delivery address, pick-up/will call, et al.

Uniform Accounting Code.

Are the SPO purchasing procedures being followed?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Is the requisition amount over **&25.00** and below **\$2499.99**?

If the requisition amount is over **\$1000**,
is a **SPO Form 10** attached with the required 3 quotations?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>

Are **sufficient funds available** for this purchase?

Vendor Name: UNITEK SOLVENT SERVICES, INC.

Requisition Amount: \$500.00

Requisitioner:  DON KAULEINAMOKU
Sign

Date: March 20, 2007

DO NOT FILL IN BELOW THIS LINE

Requisition No.: _____ (to be assigned)



Unitek Solvent Services, Inc.

T598523

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	587-1961	8324	07-12	T598523

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
03/19/07	BM	60233184	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION		
	700 Fort St., Pier 11 Gallery		
	HONOLULU	HI	96813

L O C A T I O N	DRIVER: MARVIN
	GROUNDS UNIT DIV

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	17	17	\$1.55	\$26.35
5003 Passenger/Light Truck, On Rim	Each	8	8	\$3.25	\$26.00

*I hereby certify that this is an
ORIGINAL INVOICE.*
[Signature]
Authorized Signature

CONTRACT SECTION	
<p>TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.</p> <p>I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.</p> <p>I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.</p>	
CUSTOMER SIGNATURE X	<i>[Signature]</i>

SUB-TOTAL INVOICE AMOUNT		\$52.35
SALES TAX @ 4.712 %		\$2.18
INVOICE TOTAL		\$54.53
PAYMENT RECEIVED SECTION		
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY



**Unitek
Solvent Services, Inc.**

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
0A	587-1961	8324	06-49

**INVOICE
NUMBER**

T597556

T597556

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
12/07/06	BM	60233184	Net 30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819
--	---

L O C A T I O N	GROUNDS UNIT DRIVER: KEITH/ STATE 7092
--	---

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	11	11	\$1.55	\$17.05
5003 Passenger/Light Truck, On Rim	Each	6	6	\$3.25	\$19.50

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature] 12/07/06
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.

I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.

CUSTOMER SIGNATURE X

[Signature]

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.166 %

\$36.55
\$1.52

INVOICE TOTAL

\$38.07

PAYMENT RECEIVED SECTION

☐ CASH
CHECK NUMBER

TOTAL RECEIVED

APPLY PAYMENT TO:

☐ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T596828

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	06-38	T596828

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
09/19/06	BM	602133184	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	GROUNDS UNIT DRIVER: SANDY
----------------------------	---	--------------------------------------	-------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	15	15	\$1.40	\$21.00
5003 Passenger/Light Truck, On Rim	Each	4	4	\$2.95	\$11.80
5004 Truck/Bus, 8.25'x12', Off Rim	Each	1	1	\$7.15	\$7.15

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature] 9/19
Authorized Signature

PARTIAL/COMPLETED

CONTRACT SECTION	
<p>TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.</p> <p>I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.</p> <p>I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.</p>	
<p>CUSTOMER SIGNATURE X <i>[Signature]</i></p>	

SUB-TOTAL INVOICE AMOUNT		\$39.95
SALES TAX @ 4.166 %		\$1.66
INVOICE TOTAL		\$41.61
PAYMENT RECEIVED SECTION		
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T596679

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
0A	587-1961	8324	06-35

INVOICE
NUMBER

T596679

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
09/01/06	BM	60233184	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	GROUND UNIT DRIVER: SANDY
--	---	--	------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	8	8	\$1.40	\$11.20
5003 Passenger/Light Truck, On Rim	Each	2	2	\$2.95	\$5.90
5004 Truck/Bus, 8.25x12, Off Rim	Each	1	1	\$7.15	\$7.15
5006 Truck/Bus, 8.25x12, On Rim	Each	1	1	\$15.95	\$15.95
5009 Duplex Off Rim	Each	2	2	\$14.50	\$29.00
5021 OR 16.0x17.5 to 10 ply On Rim	Each	1	1	\$70.00	\$70.00
5022 OR 18.0x29.5 to 10 ply Off Rim	Each	2	2	\$50.00	\$100.00

CONTRACT SECTION

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CUSTOMER SIGNATURE X

Sandra White

SUB-TOTAL INVOICE AMOUNT

\$239.20

SALES TAX @ 4.166 %

\$9.97

INVOICE TOTAL

\$249.17

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICE
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T596423

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
0A	587-1961	8324	06-32

INVOICE
NUMBER

T596423

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
08/07/06	EM	60232529	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION
	48 SAND ISLAND ROAD
	HONOLULU HI 96819

L O C A T I O N	GROUNDS UNIT
	DRIVER: SANDY
	LIC. FLT: STATE 8490

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	14	14	\$1.40	\$19.60
5004 Truck/Bus, 8.25X12, Off Rim	Each	11	11	\$7.15	\$78.65

I hereby certify that this is an
ORIGINAL INVOICE
[Signature] 8/7/06
Authorized Signature

CONTRACT SECTION	
<p>TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEYS FEES.</p> <p>I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.</p> <p>I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.</p>	
CUSTOMER SIGNATURE X	<i>[Signature]</i>

SUB-TOTAL INVOICE AMOUNT		\$98.25
SALES TAX @ 4.166 %		\$4.09
INVOICE TOTAL		\$102.34
PAYMENT RECEIVED SECTION		
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY

Remaining Balance \$ 3.19

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION-MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURCHASE
ORDER NO.

60233184

July 31, 2006

Date

Deliver Before

DELIVERY ADDRESS

BILLING ADDRESS

48 SAND ISLAND ROAD
HONOLULU, HAWAII 96819

QUAN.	UNIT	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZES. FOR VARIOUS COMMERCIAL HARBORS IN COMPLIANCE W/HR 103D-310 ORIGINAL & 3 COPIES OF INVOICE ARE REQUIRED FOR PAYMENT		500.00	

✓ DON KAULEINAMOKU

832-3848

REQUISITIONER

TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:

AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

REQUISITION NO.	
VENDOR	
NUMBER	SFX
XXXXXXXXXX	XX
237880-00	

FOR DEPARTMENT USE ONLY

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA
XX	XX	X	XX	XX	XX	XXXX	XXXX	XXXXXXXX	XX	XX	XXXXXXXXXXXX	XX	XX	XX	XXXXXXXXXXXX
01	621	S	07	040	D	7145	8300	P00110	80	847	500.00				

COPY # 1 - VENDOR

STATE ACCOUNTING FORM C-03
JULY 1, 1983 (REVISED)

(For Services, Materials, Supplies and Equipment)

Date: 7/14/2006

HONOLULU, HAWAII 96819

SUGGESTED VENDOR

KAPOLEI HAWAII 96709

Special instructions:

QUANTITY WANTED	UNIT	DESCRIPTION	ESTIMATED		PURCHASE ORDER NO.
			Unit Price	Total Cost	
1	EACH	SEMI-ANNUAL DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZE. PICKED UP FROM VARIOUS PIERS. HARBORS OAHU DISTRICT SANITATION AND GROUND UNIT E.P.A. REQUIREMENT	500.00	\$500.00	
		Sub Total		\$500.00	
		Tax			
		Grand Total		\$500.00	

VENDOR	
NUMBER	SFX
XXXXXXXXXXXX	XX

DON KAULEINAMOKU

REQUISITIONER

832-3848

TELEPHONE

[illegible]



Unitek Solvent Services, Inc.

T594926

cycling Facility
125 Kaomi Loop
Kapolei, HI 96707
A ID HID982443715
one: (808) 682-8284
c: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	06-B	T594926

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
02/23/06	EM	60232529	Net30

Page 1 of 1

S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	LOCATION HARBOR GROUNDS UNIT DRIVER: SANDY
---	--

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	50	50	\$1.40	\$70.00
5003 Passenger/Light Truck, On Rim	Each	7	7	\$2.95	\$20.65

"I hereby certify that this is an
ORIGINAL INVOICE."

Raila 2/23/06
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X

C. nup

SUB-TOTAL INVOICE AMOUNT

4.166

\$90.65

SALES TAX @ _____ %

\$3.78

INVOICE TOTAL

\$94.43

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY

Balance Left \$190.16

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION-MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURCHASE ORDER 60232956

December 6, 2005

Date _____

Deliver Before _____

DELIVERY ADDRESS

BILLING ADDRESS

48 SAND ISLAND ROAD
HONOLULU, HAWAII 96819

QUAN.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZES; PICKED UP FROM VARIOUS PIERS. FROM VARIOUS COMMERCIAL HARBORS FACILITIES	500.00	
		ORIGINAL & 3 COPIES OF INVOICE ARE REQUIRED FOR PAYMENT		

DON KAULEINAMOKU

832-3848

REQUISITIONER

TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

AUTHORIZED SIGNATURE

REQUISITION NO.

FOR DEPARTMENT USE ONLY

VENDOR

NUMBER

SFX

XXXXXXXXXX XX

237880-00

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA
01	621	S	06	040	D	7145	6300	P00110	60	847	500.00	XXXXXXXXXXXX	XX	X	XXXXXXXXXXXX

COPY # 1 - VENDOR

STATE ACCOUNTING FORM C-03
JULY 1, 1983 (REVISED)

Card Requisition Checklist

(to be attached to requisition)

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is **MasterCard** accepted for use by vendor
without incurring a service/transaction fee?

Will the purchase be a single transaction
without **backorders** or **partial payments**?

Are the following items entered on the requisition?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Phone number of vendor.

Fax number of vendor.

Contact person (if applicable).

Name & telephone number of requisitioner.

Recommended Approval of supervisor.

Method for receipt of goods or services
delivery address, pick-up/will call, et al.

Uniform Accounting Code.

Are the SPO purchasing procedures being followed?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Is the requisition amount over **&25.00** and below **\$2499.99**?


If the requisition amount is over **\$1000**,
is a **SPO Form 10** attached with the required 3 quotations?

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>

Are **sufficient funds available** for this purchase?

Vendor Name: UNITEK SOLVENT SERVICES, INC.

Requisition Amount: \$500.00

Requisitioner: 
Sign

Date: December 2, 2005

DO NOT FILL IN BELOW THIS LINE

Requisition No.: _____ (to be assigned)

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION-MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.
P.O. BOX 700370
KAPOLEI HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURCHASE ORDER **60232956**

December 6, 2005

Date _____

Deliver Before _____

DELIVERY ADDRESS

BILLING ADDRESS

48 SAND ISLAND ROAD
HONOLULU, HAWAII 96819

QUAN.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZES; PICKED UP FROM VARIOUS PIERS. FROM VARIOUS COMMERCIAL HARBORS FACILITIES	500.00	

ORIGINAL & 3 COPIES OF
 INVOICE ARE REQUIRED
 FOR PAYMENT

DON KAULEINAMOKU

832-3848

REQUISITIONER

TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY _____ DATE _____

AUTHORIZED SIGNATURE

REQUISITION NO.		FOR DEPARTMENT USE ONLY	
VENDOR			
NUMBER	SFX		
XXXXXXXXXXXX	XX		
237880-00			

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA
XX	XX	XX	XX	XX	XX	XXXX	XXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XX	XX	XXXXXXXXXXXX
01	621	S	06	040	D	7145	6300	P00110	60	647	500.00				

COPY #1 VENDOR

STATE ACCOUNTING FORM C-03
 JULY 1 1983 (REVISED)



Unitek Solvent Services, Inc.

T593958

cycling Facility
125 Kaomi Loop
Kapele, HI 96707
A ID HID982443715
one: (808) 682-8284
c: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapele, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
0A	587-1961	8324	05-44

INVOICE
NUMBER

T593958

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
10/28/05	BM	60232529	Net30

Page 1 of 1

S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	LOCATION GROUNDS UNIT DRIVER: SANDY
---	---

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	10	10	\$1.40	\$14.00
5003 Passenger/Light Truck, On Rim	Each	5	5	\$2.95	\$14.75

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature] 10/28
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE

[Signature]

SUB-TOTAL INVOICE AMOUNT

\$28.75

SALES TAX @ 4.166 %

\$1.20

INVOICE TOTAL

\$29.95

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY

Rem Bal. # 7011 ca



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T593562

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-38	T593562

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
09/13/05	EM	60232529	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	GROUNDS UNIT DRIVER: SANDY
----------------------------	---	--------------------------------------	-------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	25	25	\$1.40	\$35.00
5003 Passenger/Light Truck, On Rim	Each	22	22	\$2.95	\$64.90
5006 Truck/Bus, 8.25X12, On Rim	Each	1	1	\$15.95	\$15.95

I hereby certify that this is an
ORIGINAL INVOICE
[Signature] 9/19
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.

I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.

CUSTOMER SIGNATURE X

Curtis A. Kurohara

SUB-TOTAL INVOICE AMOUNT

\$115.85

SALES TAX @ 4.166 %

\$4.83

INVOICE TOTAL

\$120.68

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

Don [Signature] 9/20/05



Unitek Solvent Services, Inc.

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-33	T593288

T593288

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

SERVICE DATE	ZONE MGR NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
08/10/05	EM	60232529	Net 30

Page 1 of 1

BILL TO	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	LOCATION	GROUND UNIT DRIVER: MCLEAN
----------------	---	-----------------	-------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	9	9	\$1.40	\$12.60
5003 Passenger/Light Truck, On Rim	Each	10	10	\$2.95	\$29.50

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature]
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X *[Signature]*

SUB-TOTAL INVOICE AMOUNT

\$42.10

SALES TAX @ 4.166 %

\$1.75

INVOICE TOTAL

\$43.85

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICE
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____



Unitek Solvent Services, Inc.

T593151

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324,	05-31	T593151

SERVICE DATE	ZONE MGR NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
07/26/05	EM	60232529	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819
--	---

L O C A T I O N	GROUNDS UNIT DRIVER: CURTIS
--	--------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	27	27	\$1.40	\$37.80
5004 Truck/Bus, 8.25X12, Off Rim	Each	1	1	\$7.15	\$7.15

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature]
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X

[Signature]

SUB-TOTAL INVOICE AMOUNT	4.166	\$44.95
SALES TAX @ _____ %		\$1.87
INVOICE TOTAL		\$46.82
PAYMENT RECEIVED SECTION		
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. # _____	AMOUNT \$ _____	
INV. # _____	AMOUNT \$ _____	
INV. # _____	AMOUNT \$ _____	



ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-29	T593053

T593053

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
07/14/05	BM	60232529	Net30

Page 1 of 1

B	S OF HI-HARBOR DIVISION	L	GROUPS UNIT
L	48 SAND ISLAND ROAD	O	DRIVER: CURTIS
T			
O	HONOLULU HI 96819		

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	10	10	\$1.40	\$14.00
5003 Passenger/Light Truck, On Rim	Each	2	2	\$2.95	\$5.90
5004 Truck/Bus, 8.25x12, Off Rim	Each	1	1	\$7.15	\$7.15
5020 OR 10.0x17.5 to 10 ply Off Rim	Each	1	1	\$35.00	\$35.00
5041 Off Road 16.0x17.5, 20 to 24 ply	Each	1	1	\$120.00	\$120.00

I hereby certify that this is an
ORIGINAL INVOICE.

[Signature]
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X

[Signature]

SUB-TOTAL INVOICE AMOUNT	\$182.05
SALES TAX @ 4.166 %	\$7.58

INVOICE TOTAL

\$189.63

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICE
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

Dem. Pkt. \$ 5.15 89



Unitek Solvent Services, Inc.

T592953

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-27	T592953

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
06/30/05	BM	60232529	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819
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L O C A T I O N	GROUND UNIT DRIVER: MAC
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	19	19	\$1.40	\$26.60

I hereby certify that this is an
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Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.166 %

\$26.60

\$1.11

INVOICE TOTAL

\$27.71

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

ORIGINAL COPY



**Unitek
Solvent Services, Inc.**

T592755

Recycling Facility
31-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

DA	587-1961	8324	05-24	T592755
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06/07/05	EM	60232529	Net30
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Page 1 of 1

S OF HI-HARBOR DIVISION
48 SAND ISLAND ROAD

HONOLULU HI 96819

GROUND UNIT
DRIVER: ROBERT

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	14	14	\$1.40	\$19.60
5003 Passenger/Light Truck, On Rim	Each	12	12	\$2.95	\$35.40

"I hereby certify that this is an
ORIGINAL INVOICE."

Pauline 6/7
Authorized Signature

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CUSTOMER SIGNATURE X *Pauline*

SUB-TOTAL INVOICE AMOUNT		\$55.00
SALES TAX @ 4.166 %		\$2.29
		\$57.29
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION - MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES INC.

P.O. BOX 700370

KAPOLEI

HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURCH
ORDER

60232529

Date April 22, 2005

Deliver Before

DELIVERY ADDRESS

BILLING ADDRESS

48 SAND ISLAND ROAD
HONOLULU, HI 96819

QUAN.	UNIT	DESCRIPTION	OBJECT	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF ABANDONED TIRES OF VARIOUS SIZE, PICKED UP FROM VARIOUS PIERS. HARBORS OAHU DISTRICT GROUNDS UNIT E.P.A. REQUIREMENT Exempt from Chapter 103D, HRS Exemption #05-54-C			

J.F. MIYAMOTO

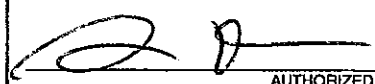
REQUISITIONER

832-3845

TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:



GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

AUTHORIZED SIGNATURE

REQUISITION NO.	FOR DEPARTMENT USE ONLY
VENDOR	
NUMBER	
SFX	
237880-00	

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA	
XX	XXX	X	XX	XXX	XX	XXXXX	XXXXX	XXXXXXXXXX	XX	XXX	XXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXX	XX	X	XXXXXXXXXXXXXX
01	621	S	05	040	D	7145	6300	P00110	60	847	900.00					

VENDOR

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION - MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

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UNITEK SOLVENT SERVICES, INC.

P.O. BOX 700370

KAPOLEI

HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURCH
ORDER

60232482

Date April 12, 2005

Deliver Before

DELIVERY ADDRESS

BILLING ADDRESS

48 SAND ISLAND ROAD
HONOLULU, HI 96819

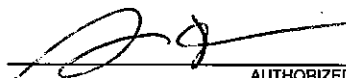
QUAN.	UNIT	DESCRIPTION	OBJECT	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF OLD, WASTE TIRES ABANDONED ON VARIOUS PIERS. FOR HARBORS OAHU DISTRICT GROUNDS UNIT E.P.A. REQUIREMENT Exempt from Chapter 103D, HRS Exemption #05-54-C			

DON KALEINAMOKU
REQUISITIONER

832-3848
TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:



GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

AUTHORIZED SIGNATURE

REQUISITION NO.	FOR DEPARTMENT USE ONLY
VENDOR	
NUMBER	
SFX	
XXXXXXXXXX	XX
237880-00	

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST		ACTUAL COST		M	R	OPT DEPT DATA
XX	XXX	X	XX	XXX	XX	XXXX	XXXX	XXXXXXXX	XX	XXX	XXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXX	XX	X	X	XXXXXXXXXXXXXX
01	621	S	05	040	D	7145	6300	P00110	60	847	900.00						

**STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION**

HARBORS DIVISION - MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

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UNITEK SOLVENT SERVICES, INC.

P.O. BOX 700370

KAPOLEI

HI 96709

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PUR
ORDL NO.

60232482

Date **April 12, 2005**

Deliver Before

DELIVERY ADDRESS

BILLING ADDRESS

**48 SAND ISLAND ROAD
HONOLULU, HI 96819**

QUAN.	UNIT	DESCRIPTION	OBJECT	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF OLD, WASTE TIRES ABANDONED ON VARIOUS PIERS.		800.00	800.00
		FOR HARBORS OAHU DISTRICT GROUNDS UNIT E.P.A. REQUIREMENT			
		Exempt from Chapter 103D, HRS Exemption #05-54-C			

DON KALEINAMOKU

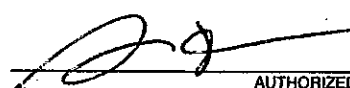
REQUISITIONER

832-3848

TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:



GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

AUTHORIZED SIGNATURE

REQUISITION NO.	
VENDOR	
NUMBER	SFX
XXXXXXXXXX	XX
237880-00	

FOR DEPARTMENT USE ONLY

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA	
XX	XXX	X	XX	XXX	XX	XXXXX	XXXXX	XXXXXXXX	XX	XXX	XXXXXXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXX	XX	XX	XXXXXXXXXXXXXXXXXX
01	621	S	05	040	D	7145	6300	P00110	60	847	900.00					

PAID: 4/20/05



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T592323

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-17	T592323

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
04/20/05	BPI	60232482	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	HARBOR DIVISION DRIVER : SANDY
--	---	--	-----------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5003 Passenger/Light Truck, On Rim	Each	1	1	\$2.95	\$2.95
5004 Truck/Bus, 8.25<12, Off Rim	Each	5	5	\$7.15	\$35.75
5006 Truck/Bus, 8.25<12, On Rim	Each	15	15	\$15.95	\$239.25
5020 OR 10.0>17.5 to 10 ply Off Rim	Each	1	1	\$35.00	\$35.00
5032 18.0>29.5, 12 TO 18 FLY	Each	2	2	\$80.00	\$160.00

"I hereby certify that this is an
ORIGINAL INVOICE."

Authorized Signature

CONTRACT SECTION	
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<p>CUSTOMER SIGNATURE X </p>	

SUB-TOTAL INVOICE AMOUNT		\$472.95
SALES TAX @ 4.166 %		\$19.70
INVOICE TOTAL		\$492.65
PAYMENT RECEIVED SECTION		
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY

Balance - 56.92



Unitek
Solvent Services, Inc.

T592315

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-17	T592315

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
04/19/05	BM	60232482	Net30

Page 1 of 1

B	S OF HI-HARBOR DIVISION
I	48 SAND ISLAND ROAD
L	
E	
T	
O	HONOLULU HI 96819

L	HARBOR DIVISION
O	DRIVER: SANDY
C	
A	
T	
I	
O	

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	30	30	\$1.40	\$42.00
5003 Passenger/Light Truck, On Rim	Each	54	54	\$2.95	\$159.30

I hereby certify that this is an
ORIGINAL INVOICE.

[Signature] 4/19
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.
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CUSTOMER SIGNATURE X

Sandra D. Dini

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.166 %

\$201.30
\$8.39

INVOICE TOTAL

\$209.69

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	



Unitek
Solvent Services, Inc.

T592308

Recycling Facility
31-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 682-8284
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-17	T592308

SERVICE DATE	ZONE MGR NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
04/19/05	EM	102209415	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION
	48 SAND ISLAND ROAD
	HONOLULU HI 96819

L O C A T I O N	HARBOR DIVISION
	DRIVER: SANDY

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	106	106	\$1.40	\$148.40

"I hereby certify that this is an
ORIGINAL INVOICE"
[Signature] #119
Authorized Signature

CONTRACT SECTION
<p>TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.</p> <p>I FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.</p> <p>I ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.</p> <p>CUSTOMER SIGNATURE <i>[Signature]</i></p>

SUB-TOTAL INVOICE AMOUNT		\$148.40
SALES TAX @ 4.166 %		\$6.18
INVOICE TOTAL		\$154.58
PAYMENT RECEIVED SECTION		
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	



Unitek Solvent Services, Inc.

T592189

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-15	T592189

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
04/04/05	EM	60231961	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	HARBOR DIV.- GROUND UNIT DRIVER: BRIAN
--	---	--	---

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	2	2	\$1.40	\$2.80
5003 Passenger/Light Truck, On Rim	Each	1	1	\$2.95	\$2.95
5004 Truck/Bus, 8.25x12, Off Rim	Each	1	1	\$7.15	\$7.15
5009 Duplex Off Rim	Each	2	2	\$14.50	\$29.00
5030 10.0x17.5, 12 TO 18 FLY	Each	2	2	\$60.00	\$120.00

I hereby certify that this is an
ORIGINAL INVOICE.

Redmond 4/14/05
Authorized Signature

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEYS FEES.

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CUSTOMER SIGNATURE X

S. Skye

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.166 %

\$161.90

\$6.74

INVOICE TOTAL

\$168.64

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____



Unitek
Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T92037

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
	8082285553	8384	05-13	T92037

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
03/21/05	EM	60231901	COD

Page 1 of 1

B I L L T O	S OF H - DLNR 1151 PUNCHBOWL STREET RM 221 ENGINEERING DEPT. HONOLULU HI 96813
----------------------------	---

L O C A T I O N	HARBOR DIVISION DRIVER: WENDELL
--------------------------------------	------------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	22	22	\$1.40	\$30.80
5003 Passenger/Light Truck, On Rim	Each	10	10	\$2.95	\$29.50

I hereby certify that this is an
ORIGINAL INVOICE.
[Signature]
Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X *[Signature]*

SUB-TOTAL INVOICE AMOUNT		\$60.30
SALES TAX @ 4.166 %		\$2.51
INVOICE TOTAL		\$62.81

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS

INV. #	AMOUNT \$
INV. #	AMOUNT \$
INV. #	AMOUNT \$



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T92037

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-13	T92037

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
03/21/05		60231961	COD

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION
	48 SAND ISLAND ROAD
	HONOLULU HI 96819

L O C A T I O N	HARBOR DIVISION
	DRIVER: WENDELL

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	22	22	\$1.40	\$30.80
5003 Passenger/Light Truck, On Rim	Each	10	10	\$2.95	\$29.50

I hereby certify that this is an
ORIGINAL INVOICE

Don Kade Namoky 3/21/05
Authorized Signature

Post-It® Fax Note	7671	Date	3/21	# of pages	1
To	Don Kade Namoky	From	LEW		
Co./Dept.	S of H Harbor Div.	Co.	Unitek Solvent Ser.		
Phone #	Grounds Unit	Phone #	673-3227		
Fax #	832-3800	Fax #	673-3241		

Amended invoice

CONTRACT SECTION

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CUSTOMER SIGNATURE X *Per phone w/ Don K.*

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.166 %

\$60.30

\$2.51

INVOICE TOTAL

\$62.81

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T91715

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	05-9	T91715

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
02/23/05	BM	60231961	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	HARBOR DIVISION DRIVER: MIKE
--	---	--	---------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	2	2	\$1.40	\$2.80
5003 Passenger/Light Truck, On Rim	Each	2	2	\$2.95	\$5.90

"I hereby certify that this is an
ORIGINAL INVOICE."

[Signature]

Authorized Signature

CONTRACT SECTION

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CUSTOMER SIGNATURE X

[Signature]

SUB-TOTAL INVOICE AMOUNT

\$8.70

SALES TAX @ 4.166 %

\$0.36

INVOICE TOTAL

\$9.06

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS

INV. #	AMOUNT \$
INV. #	AMOUNT \$
INV. #	AMOUNT \$



Unitek Solvent Services, Inc.

T90993

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

INVOICE NUMBER	ACCOUNT NUMBER	SERVICE NUMBER	DATE
T90993	8082285553	8384	04-50

DATE	QUANTITY	UNIT PRICE	TOTAL
12/09/04	BM	60231961	COD

Page 1 of 1

S OF H - DLNR
1151 PUNCHBOWL STREET RM 221
ENGINEERING DEPT.
HONOLULU HI 96813

HARBOR DIVISION
DRIVER: FRED

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	10	10	\$1.35	\$13.50
5003 Passenger/Light Truck, On Rim	Each	6	6	\$2.95	\$17.70
5004 Truck/Bus, 8.25X12, Off Rim	Each	1	1	\$6.90	\$6.90
5012 4-Wheel/Forklift, On Rim	ea	4	4	\$4.80	\$19.20

Certified 12/9/04
P.O.

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CUSTOMER SIGNATURE

[Signature]

SUB-TOTAL INVOICE AMOUNT	\$57.30
SALES TAX @ 4.166 %	\$2.39

TOTAL DUE	\$59.69
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PAYMENT INFORMATION	
<input type="checkbox"/> CASH	TOTAL RECEIVED
CHECK NUMBER	<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
	<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS

INV. #	AMOUNT \$
INV. #	AMOUNT \$
INV. #	AMOUNT \$



Unitek Solvent Services, Inc.

T90673

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	04-44	T90673

SERVICE DATE	ZONE MGR NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
10/27/04	EM	60230647	Net30

Page 1 of 1

BILL TO	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	LOCATION	
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5000 Motorcycle/Mini Off-Rim	Each	2	2	\$0.75	\$1.50
5002 Passenger/Light Truck, Off Rim	Each	24	24	\$1.35	\$32.40
5003 Passenger/Light Truck, On Rim	Each	16	16	\$2.95	\$47.20

CONTRACT SECTION

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CUSTOMER SIGNATURE X

SUB-TOTAL INVOICE AMOUNT	4.166	\$81.10
SALES TAX @	%	\$3.38
INVOICE TOTAL		\$84.48

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T89639

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	04-32	T89639

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
08/02/04	BM	00230647	Net30

Page 1 of

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	HARBOR DIV. DOT DRIVER: CURTIS
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	14	14	\$1.35	\$18.90
5003 Passenger/Light Truck, On Rim	Each	3	3	\$2.95	\$8.85
5004 Truck/Bus, 8.25'x12, Off Rim	Each	5	5	\$6.90	\$34.50

CONTRACT SECTION

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CUSTOMER SIGNATURE X

Curtis M. Kurehara

SUB-TOTAL INVOICE AMOUNT	\$62.25
SALES TAX @ 4.166 %	\$2.59

INVOICE TOTAL

\$64.84

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS

INV. #	AMOUNT \$
INV. #	AMOUNT \$
INV. #	AMOUNT \$



Unitek Solvent Services, Inc.

T89222

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	04-26	T89222

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
06/22/04	BM	60230647	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	DOT HARBOR DIV. DRIVER: CURTIS
--	---	--	-----------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	15	15	\$1.35	\$20.25
5003 Passenger/Light Truck, On Rim	Each	2	2	\$2.95	\$5.90
5004 Truck/Bus, 8.25x12, Off Rim	Each	3	3	\$6.90	\$20.70

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X

SUB-TOTAL INVOICE AMOUNT	\$46.85
SALES TAX @ 4.166 %	\$1.95

INVOICE TOTAL

\$48.80

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

HARBORS DIVISION - MAINTENANCE

FUNCTION AND ACTIVITY

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

~~UNITEK SOLVENT SERVICES, INC.~~

P.O. BOX 700370

KAPOLEI

HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

ORDER N°

60230647

Date **November 6, 2003**

Deliver Before

DELIVERY ADDRESS**BILLING ADDRESS**

**48 SAND ISLAND ROAD
HONOLULU, HI 96819**

PH* 673-3227

DUAL.	UNIT	DESCRIPTION	OBJECT	UNIT PRICE	AMOUNT
		<p>SEMI-ANNUAL DISPOSAL OF OLD TIRES PICKED UP FROM VARIOUS TIERS.</p> <p>FOR HARBORS OAHU DISTRICT GROUNDS UNIT</p>			

J.F. MIYAMOTO

REQUISITIONER

832-3845

TELEPHONE

**VOUCHER
NUMBER**

AUTHENTICATED BY:

Flourence Y. Ho
 AUTHORIZED SIGNATURE
 FOR DEPARTMENT USE ONLY

AUTHORIZED SIGNATURE

TOOLS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE _____

REQUISITION NO.

FOR DEPARTMENT USE ONLY

VENDOR

NUMBER

SFX

XXXXXXXXXX	XX
------------	----

237880-00

[illegible]



Unitek
Solvent Services, Inc.

T89069

cycling Facility
125 Kaomi Loop
Kapolei, HI 96707
A ID HID982443715
one: (808) 673-3227
c: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	NUMBER
0A	587-1961	8324	04-23	T89069

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
06/03/04	BM	60230647	Net30

Page 1 of 1

BILL TO	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	LOCATION	HARBOR DIVISION DRIVER: SAM
----------------	---	-----------------	--------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5003 Passenger/Light Truck, On Rim	Each	11	11	\$2.95	\$32.45

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

FULLY UNDERSTAND THE INFORMATION PRINTED ON THE REVERSE SIDE OF THIS INVOICE AND I HEREBY INDEMNIFY UNITEK AGAINST ANY LOSS OR CLAIM ARISING FROM THE USE OF ITS PRODUCTS AND/OR SERVICES.

ACKNOWLEDGE RECEIPT OF THE PRODUCTS AND/OR SERVICES DESCRIBED IN THIS INVOICE. ALSO, UNLESS RECEIPT OF PAYMENT BY THE UNITEK REPRESENTATIVE IS EVIDENCED ON THIS INVOICE, I HEREBY ACKNOWLEDGE THAT PAYMENT FOR THESE PRODUCTS AND/OR SERVICES HAS NOT YET BEEN MADE EVEN IF THE TERMS WERE SUPPOSED TO BE C.O.D.

CUSTOMER SIGNATURE X

SUB-TOTAL INVOICE AMOUNT

\$32.45

SALES TAX @ 4.166 %

\$1.35

INVOICE TOTAL

\$33.80

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____



Unitek Solvent Services, Inc.

Recycling Facility
1-125 Kaomi Loop
Kapolei, HI 98707
PA ID HID882443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 98709

T88967

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	NUMBER
0A	587-1961	8324	04-22	T88967

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
05/27/04	BM		Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	L O C A T I O N	DOT Highway Division Driver: Fred
--	---	--	--------------------------------------

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	19	19	\$1.35	\$25.65
5003 Passenger/Light Truck, On Rim	Each	5	5	\$2.95	\$14.75
5004 Truck/Bus, 8.25x12, Off Rim	Each	9	9	\$6.90	\$62.10

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X

SUB-TOTAL INVOICE AMOUNT

\$102.50

SALES TAX @ 4.166 %

\$4.27

INVOICE TOTAL

\$106.77

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS

INV. #	AMOUNT \$
INV. #	AMOUNT \$
INV. #	AMOUNT \$



Unitek Solvent Services, Inc.

Recycling Facility
11-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T88297

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324	04-12	T88297

SERVICE DATE	ZONE MGR NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
03/18/04	CL	60230647	Net30

Page 1 of 1

S OF HI-HARBOR DIVISION
48 SAND ISLAND ROAD

HONOLULU HI 96819

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	16	16	\$1.35	\$21.60
5003 Passenger/Light Truck, On Rim	Each	7	7	\$2.95	\$20.65

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X

[Signature]

SUB-TOTAL INVOICE AMOUNT	\$42.25
SALES TAX @ 4.166 %	\$1.76

INVOICE TOTAL \$44.01

PAYMENT RECEIVED SECTION			
<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:	
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES	
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS	
INV. #	AMOUNT \$		
INV. #	AMOUNT \$		
INV. #	AMOUNT \$		



Unitek Solvent Services, Inc.

Recycling Facility
11-125 Kaomi Loop
Kapolei, HI 96707
PA ID HID982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T87538

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	NUMBER
0A	587-1961	8324-10	03-51	T87538

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
12/18/03	BM	60230647	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION
	48 SAND ISLAND ROAD
	HONOLULU HI 96819

L O C A T I O N	S OF H HARBORS DIV. - MAINT.
	48 SAND ISLAND ROAD
	HONOLULU HI 96819

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	9	9	\$1.35	\$12.15
5003 Passenger/Light Truck, On Rim	Each	6	6	\$2.95	\$17.70

CONTRACT SECTION

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CUSTOMER SIGNATURE X 

SUB-TOTAL INVOICE AMOUNT
SALES TAX @ 4.166 %

\$29.85
\$1.24

INVOICE TOTAL

\$31.09

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

**STATE OF HAWAII
SMALL PURCHASE WRITTEN QUOTATIONS**

Date: 05/08/03Company Name: Unitek Solvent Services, Inc.Phone/Fax No.: 678-3227 / 678-3241Address: 91-125 Kaomi LoopCity/State/Zip Code: Kapolei, Hawaii 96707Vendor Representative: Byron Manipon

PROVIDE A QUOTATION for the following good/service/construction (Describe or [] see attached specifications):
FOR DISPOSAL OF OVERSIZED OFF-ROAD RIMLESS WASTE TIRES: 1 EACH 16.9 x 24-8 PLY, 2 EACH 19.5 x 24-10 PLY, 4 EACH 17.5 x 25-12 PLY, 1 EACH 22.5 x 16.5-16 PLY, 6 EACH 19.5 x 18-16 PLY, 1 EACH 19.5 x 16.5-18 PLY, & 1 EACH 17.5 x 25-20 PLY. ALL TIRES WILL BE DELIVERED BY OUR MAINTENANCE PERSONNEL. PLEASE HAVE THE VENDOR SECTION BELOW FILLED OUT COMPLETELY. THANK YOU.

DISPOSAL OF VARIOUS SIZE WASTE TIRES

QUOTATIONS REQUESTED BY (mail or fax this quotation by 05/16/03 3:00 P.M. to the following):
 (date) (time)

Dept/Agency HARBORS MAINTENANCE DIVISIONAddress 48 SAND ISLAND ROAD City/State/Zip Code: HONOLULU, HI 96819Contact Person ERNEST THEODORE Phone / Fax No. 832-3845 / 832-3843

VENDOR TO COMPLETE THE SECTION BELOW

Item No.	Description (\$)	QTY	UNIT PRICE	TOTAL PRICE
1	16.9 x 24 8 Ply off rim <i>ALL SIZES</i>	1	35.00	35.00
2	19.5 x 24 10 Ply off rim	2	50.00	100.00
3	17.5 x 25 12 Ply off rim	4	60.00	240.00
4	22.5 x 16.5 16 Ply off rim	1	80.00	80.00
5	19.5 x 18 16 Ply off rim	5	80.00	400.00
6	19.5 x 16.5 18 Ply off rim	1	80.00	80.00
7	17.5 x 25 20 Ply off rim	1	120.00	120.00
Shipping / Handling				1,055.00
State Tax				43.95
TOTAL SUM PRICE				1,098.95

Additional information or terms (i.e. delivery time, warrant period, etc.):

Quote No. 051303 Price(s) shall remain firm for 30 days.Vendor representative: May 13, 2003

Signature

date

Title: Plant Manager



Unitek
Solvent Services, Inc.

T86638

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
0A	587-1961	8324-10	03-34

INVOICE
NUMBER

T86638

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
08/21/03	BM	60230095	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819
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L O C A T I O N	S OF H HARBORS DIV. - MAINT. 48 SAND ISLAND ROAD HONOLULU HI 96819
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	19	19	\$1.35	\$25.65
5003 Passenger/Light Truck, On Rim	Each	8	8	\$2.95	\$23.60

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X

Wendell K. Kahalea

SUB-TOTAL INVOICE AMOUNT

\$49.25

SALES TAX @ 4.166 %

\$2.05

INVOICE TOTAL

\$51.30

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____



Unitek Solvent Services, Inc.

Recycling Facility
11-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T87247

ZONE NUMBER	CUSTOMER TELEPHONE	ORDER NUMBER	DATE WEEK	
0A	587-1961	8324-10	03-47	T87247

SERVICE DATE	ZONE MGR NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
11/19/03	BM	60230647	Net30

Page 1 of 1

S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819

S OF H HARBORS DIV. - MAINT. 48 SAND ISLAND ROAD HONOLULU HI 96819
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	8	8	\$1.35	\$10.80
5003 Passenger/Light Truck, On Rim	Each	1	1	\$2.95	\$2.95

CONTRACT SECTION

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CUSTOMER SIGNATURE

S. P. Rishi

SUB-TOTAL INVOICE AMOUNT

\$13.75

SALES TAX @ 4.166 %

\$0.57

INVOICE TOTAL

\$14.32

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY

REQUISITION & PURCHASE ORDER

DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION - MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

UNITEK SOLVENT SERVICES, INC.

P.O. BOX 700370

KAPOLEI

HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

ORDER No.

60230647

Date November 6, 2003

Deliver Before

DELIVERY ADDRESS

BILLING ADDRESS

48 SAND ISLAND ROAD
HONOLULU, HI 96819

QUAN.	UNIT	DESCRIPTION	OBJECT	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF OLD TIRES PICKED UP FROM VARIOUS PIERS. FOR HARBORS OAHU DISTRICT GROUNDS UNIT			

J.F. MIYAMOTO

REQUISITIONER

832-3845

TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:

AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY

DATE

REQUISITION NO.	
VENDOR	
NUMBER	SFX
XXXXXXXXXX	XX
237880-00	

FOR DEPARTMENT USE ONLY

X	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST		ACTUAL COST		M	R	OPT DEPT DATA
C	XXX	X	XX	XXX	XX	XXXXX	XXXXX	XXXXXXXXXX	XX	XXX	XXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXX	XX	X	X	XXXXXXXXXXXXXX
F	621	S	04	040	D	5832	6300	P00110	60	847	500.00						

STATE OF HAWAII
REQUISITION & PURCHASE ORDER
DEPARTMENT OF TRANSPORTATION

HARBORS DIVISION - MAINTENANCE

ORGANIZATION

FUNCTION AND ACTIVITY

NOTICE TO VENDORS

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P.O. BOX 700370

KAPOLEI

HI 96709

The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

PURC
ORDE

60230605

Date October 27, 2003

Deliver Before

DELIVERY ADDRESS

BILLING ADDRESS

48 SAND ISLAND ROAD
HONOLULU, HI 96819

QUAN.	UNIT	DESCRIPTION	OBJECT	UNIT PRICE	AMOUNT
		SEMI-ANNUAL DISPOSAL OF OLD TIRES PICKED UP FROM VARIOUS PIERS. FOR HARBORS OAHU DISTRICT GROUNDS UNIT <i>60230095</i> <i>130.31</i>			

J.F. MIYAMOTO
REQUISITIONER

832-3845
TELEPHONE

VOUCHER
NUMBER

AUTHENTICATED BY:

Flurence Y. [Signature]
AUTHORIZED SIGNATURE

GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY DATE

REQUISITION NO.	
VENDOR	
NUMBER	SFX
XXXXXXXXXX	XX
237880-00	

FOR DEPARTMENT USE ONLY

SFX	TC	F	YR	APP	D	OBJECT	CC	PROJ NO.	PH	ACT	ESTIMATED COST	ACTUAL COST	M	R	OPT DEPT DATA
XX	XXX	X	XX	XXX	XX	XXXX	XXXX	XXXXXXXX	XXXXXX	XXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXX	XX	X	XXXXXXXXXXXXXX
01	621	S	04	040	D	5832	6300	P00110	60	847	500.00				



Unitek Solvent Services, Inc.

T86990

Recycling Facility
125 Kaomi Loop
Kapolei, HI 96707
PA ID HI0982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE ORDER NUMBER	NUMBER
0A	587-1961	8324	03-42	T86990

SERVICE DATE	ZONE NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
10/16/03	BM	60230095	Net30

Page 1 of 1

S OF HI-HARBOR DIVISION
48 SAND ISLAND ROAD

HONOLULU HI 96819

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	25	25	\$1.35	\$33.75
5003 Passenger/Light Truck, On Rim	Each	4	4	\$2.95	\$11.80
5004 Truck/Bus, 8.25x12, Off Rim	Each	4	4	\$6.90	\$27.60

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X

Davey M. Muhl

SUB-TOTAL INVOICE AMOUNT

\$73.15

SALES TAX @ 4.166 %

\$3.05

INVOICE TOTAL

\$76.20

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY



Unitek Solvent Services, Inc.

T86774

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID: HD982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324-10	03-38	T86774

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
09/16/03	BM	60230095	Net30

Page 1 of 1

BILL TO	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	LOCATION	S OF H HARBORS DIV. - MAINT. 48 SAND ISLAND ROAD P.O.C. GREG (DCS) HONOLULU HI 96819
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	12	12	\$1.35	\$16.20
5003 Passenger/Light Truck, On Rim	Each	2	2	\$2.95	\$5.90
5009 Duplex	ea	2	2	\$14.00	\$28.00

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X

[Signature]

SUB-TOTAL INVOICE AMOUNT

\$50.10

SALES TAX @ 4.166 %

\$2.09

INVOICE TOTAL

\$52.19

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED:	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HI0982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T86044

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
QA	587-1961	8324	03-25	T86044

SERVICE DATE	ZONE MGR NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
06/16/03	BK	60230095	Net30

Page 1 of 1

B I L L T O	5 OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	
----------------------------	---	--

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	5	5	\$1.35	\$6.75
5003 Passenger/Light Truck, On Rim	Each	5	5	\$2.95	\$14.75
5004 Truck/Bus, 8.25<12, Off Rim	Each	2	2	\$6.90	\$13.80
5006 Truck/Bus, 8.25<12, On Rim	Each	1	1	\$15.45	\$15.45

CONTRACT SECTION

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CUSTOMER SIGNATURE X *Curtis Kurehara*

SUB-TOTAL INVOICE AMOUNT		\$50.75
SALES TAX @ 4.166 %		\$2.11
INVOICE TOTAL		\$52.86

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS

INV. #	AMOUNT \$
INV. #	AMOUNT \$
INV. #	AMOUNT \$

ORIGINAL COPY



Unitek
Solvent Services, Inc.

T85609

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324-10	03-15	T85609

SERVICE DATE	ZONE MGR NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
04/11/03	BM		Net30

Page 1 of 1

BILL TO	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	LOCATION	S OF H HARBORS DIV. - MAINT. 48 SAND ISLAND ROAD HONOLULU HI 96819
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5002 Passenger/Light Truck, Off Rim	Each	38	38	\$1.35	\$51.30
5004 Truck/Bus, 8.25x12, Off Rim	Each	28	28	\$6.90	\$193.20

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X

[Handwritten Signature]

SUB-TOTAL INVOICE AMOUNT

\$244.50

SALES TAX @ 4.166 %

\$10.19

INVOICE TOTAL

\$254.69

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES <input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ORIGINAL COPY



Unitek Solvent Services, Inc.

91-125 Kaomi Loop
Kapolei, Hawaii 96707
Phone: 882-8284
Fax: 673-3241

SCRAP TIRE RECYCLING PRICES

September 1, 2001

DELIVERED TO OUR KAPOLEI SITE

(cost per tire)

PASSENGER / LIGHT TRUCK TIRES:

Motorcycle / Mini	
Off Rim.....	\$ 0.75
On Rim.....	\$ 1.80
Passenger / Light Truck	
Off Rim.....	\$ 1.35
On Rim.....	\$ 2.95
Truck / Bus, 8.25 thru 12.00	
Off Rim.....	\$ 6.90
Off Rim Foam Filled.....	\$35.00
On Rim.....	\$15.45
On Rim Foam Filled.....	\$45.00
Duplex.....	\$14.00
Foam Filled add.....	\$75.00
On Rim add.....	\$65.00
4 Wheel Drive / Forklift	
Off Rim.....	\$ 2.90
Off Rim Foam Filled.....	\$25.00
On Rim.....	\$ 4.80
On Rim Foam Filled.....	\$35.00

OFF THE ROAD - OVERSIZE TIRES:

10.0><17.5, to 10 ply.....	\$ 35.00
18.0><29.5, to 10 ply.....	\$ 50.00
10 ply Foam Filled add.....	\$ 75.00
10 ply On Rim add.....	\$ 35.00
10.0><17.5, 12 to 18 ply.....	\$ 60.00
18.0><29.5, 12 to 18 ply.....	\$ 80.00
30.0><33.5, 12 to 18 ply.....	\$125.00
12 to 18 ply Foam Filled add.....	\$100.00
12 to 18 ply On Rim add.....	\$ 50.00
10.0><17.5, 20 to 24 ply.....	\$120.00
18.0><29.5, 20 to 24 ply.....	\$170.00
30.0><33.5, 20 to 24 ply.....	\$200.00
20 to 24 ply Foam Filled add.....	\$125.00
20 to 24 ply On Rim add.....	\$ 75.00
10.0><17.5, 25 to 28 ply.....	\$200.00
18.0><29.5, 25 to 28 ply.....	\$310.00
30.0><33.5, 25 to 28 ply.....	\$335.00
25 to 28 ply Foam Filled add.....	\$150.00
25 to 28 ply On Rim add.....	\$100.00
10.0><17.5, 29 to 36 ply.....	\$235.00
18.0><29.5, 29 to 36 ply.....	\$335.00
30.0><35.5, 29 to 36 ply.....	\$375.00
36.0><40.0, 29 to 36 ply.....	\$400.00
29 to 36 ply Foam Filled add.....	\$175.00
29 to 36 ply On Rim add.....	\$125.00

7:30 a.m. to 4:00 p.m., Monday through Saturday
Closed on Sundays and Holidays

Drop Off Location:

Campbell Industrial Park, 91-125 Kaomi Loop
Kapolei, Hawaii 96707

Phone: (808)673-3227

Fax: (808)673-3241

Sand Island Recycling, Inc.

*Tire Recycling Prices (Cost Per Tire)

Drop Off Location: Sand Island Access Road

Daily: 8 am - 4 pm

Phone: 845-1188

PASSENGER/LIGHT TRUCK TIRES:

	Off Rim	On Rim
Motorcycle/Mini	\$0.70	\$1.75
Passenger/Light Truck	\$1.40	\$2.75
Truck/Bus 8.25 thru 12.00	\$6.75	\$15.40
4 Wheel Drive/Forklift	\$2.75	\$4.80

OFF ROAD-OVERSIZED TIRES:

Ply	Width	Off Rim	On Rim
8 thru 10	10.0><17.5	\$30.00	\$60.00
	18.0><29.5	\$45.00	\$75.00
12 thru 18	10.0><17.5	\$55.00	\$100.00
	18.0><29.5	\$75.00	\$120.00
	30.0><33.5	\$120.00	\$165.00
20 thru 24	10.0><17.5	\$115.00	\$185.00
	18.0><29.5	\$160.00	\$230.00
	30.0><33.5	\$195.00	\$265.00
25 thru 28	10.0><17.5	\$195.00	\$290.00
	18.0><29.5	\$305.00	\$400.00
	30.0><33.5	\$330.00	\$425.00
29 thru 36	10.0><17.5	\$230.00	\$350.00
	18.0><29.5	\$330.00	\$450.00
	30.0><35.5	\$370.00	\$490.00
	36.0><40.0	\$395.00	\$515.00
37 +	10.0><17.5	\$395.00	\$550.00
	18.0><29.5	\$445.00	\$600.00
	30.0><35.5	\$495.00	\$650.00
	36><40.0	\$595.00	\$750.00

OFF ROAD-OVERSIZED TIRES:

5' to 6' Tall (Height) add..... \$175.00

7' to 8' Tall (Height) add..... \$225.00

Above prices to be added to Tire Size/Ply charge.

*Prices subject to change



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T85316

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
0A	587-1961	8324-10	03-10	T85316

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
03/03/03	BM	60227246	Net30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION
	48 SAND ISLAND ROAD
	HONOLULU HI 96819

L O C A T I O N	S OF H HARBORS DIV. - MAINT.
	48 SAND ISLAND ROAD
	HONOLULU HI 96819

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5006 Truck/Bus, 8.25<12, On Rim	Each	2	2	\$15.45	\$30.90
5004 Truck/Bus, 8.25<12, Off Rim	Each	2	2	\$6.90	\$13.80
5003 Passenger/Light Truck, On Rim	Each	16	16	\$2.95	\$47.20
5002 Passenger/Light Truck, Off Rim	Each	25	25	\$1.35	\$33.75

CONTRACT SECTION

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CUSTOMER SIGNATURE

SUB-TOTAL INVOICE AMOUNT \$125.65
SALES TAX @ 4.166 % \$5.23

INVOICE TOTAL

\$130.88

PAYMENT RECEIVED SECTION

☐ CASH TOTAL RECEIVED APPLY PAYMENT TO:
☐ CHECK NUMBER ☐ TODAY'S PRODUCTS AND SERVICES
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____
INV. # _____ AMOUNT \$ _____

ORIGINAL COPY



Unitek Solvent Services, Inc.

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID HID982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

T83558

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
DA	587-1961	8324-10	02-31	T83558

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
08/02/02	BM		Net30

Page 1 of 1

BILL TO	S OF HI-HARBOR DIVISION 48 SAND ISLAND ROAD HONOLULU HI 96819	LOCATION	S OF H HARBORS DIV. - MAINT. 48 SAND ISLAND ROAD HONOLULU HI 96819
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ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5010 4-Wheel/Forklift, Off Rim	ea	1	1	\$2.90	\$2.90
5003 Passenger/Light Truck, On Rim	Each	16	16	\$2.95	\$47.20
5002 Passenger/Light Truck, Off Rim	Each	11	11	\$1.35	\$14.85

CONTRACT SECTION

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CUSTOMER SIGNATURE X *Henry Jk*

SUB-TOTAL INVOICE AMOUNT	\$64.95
SALES TAX @ 4.166 %	\$2.71
INVOICE TOTAL	\$67.66

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS

INV. #	AMOUNT \$
INV. #	AMOUNT \$
INV. #	AMOUNT \$

ORIGINAL COPY



UNITEK

Unitek Solvent Services, Inc.

2889 Mokumoa Street
Honolulu, Hawaii 96819
Phone: (808) 831-3066
Fax: (808) 831-3086

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK
	832-3848	8324	00-10

INVOICE
NUMBER

175787

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
3/3/00	5426		Net 30

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Sof H Harbor Division

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N

Code Description Price Unit Quantity Amount

5000 Motorcycle/Mini Off Rim	0.55	EA		
5001 Motorcycle/Mini On Rim	1.55	EA		
✓ 5002 Passenger/Light Truck Off Rim	1.05	EA	- 105	110.25
5003 Passenger/Light Truck On Rim	2.45	EA		
✓ 5004 Truck/Bus 8.25-12.00 Off Rim	4.95	EA	- 6	29.70
5005 Truck/Bus 8.25-12.00 Off Rim Foam	35.00	EA		
5006 Truck/Bus 8.25-12.00 On Rim	13.00	EA		
5007 Truck/Bus 8.25-12.00 On Rim Foam	45.00	EA		
5008 Truck Tire on Rim	15.00	EA		
5009 Duplex	10.00	EA		
5010 4 Wheel Drive/Forklift Off Rim	2.10	EA		
5011 4 Wheel Dr/Forklift Off Rim Foam	25.00	EA		
5012 4 Wheel Drive/Forklift On Rim	3.75	EA		
5013 4 Wheel Dr/Forklift On Rim Foam	35.00	EA		
5014 Duplex Foam	85.00	EA		
5015 Duplex On Rim	45.00	EA		

Other:

A service fee of \$25.00 will be charged on any returned checks.

CONTRACT SECTION

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CUSTOMER SIGNATURE X

Joanne Sellday

SUB-TOTAL INVOICE AMOUNT

SALES TAX @ 4.166% =

139.95
5.83

INVOICE TOTAL

145.78

PAYMENT RECEIVED SECTION

☐ CASH

TOTAL RECEIVED

APPLY PAYMENT TO:

CHECK NUMBER

☐ TODAY'S PRODUCTS AND SERVICES

☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

INV. # _____ AMOUNT \$ _____

PLEASE SEE REVERSE SIDE FOR IMPORTANT MACHINE INFORMATION



Unitek
Solvent Services, Inc.

T80638

Recycling Facility
91-125 Kaomi Loop
Kapolei, HI 96707
EPA ID H1D982443715
Phone: (808) 673-3227
Fax: (808) 673-3241

Mail Payment to
Unitek Solvent Services, Inc.
P.O. Box 700370
Kapolei, HI 96709

ZONE NUMBER	CUSTOMER TELEPHONE	CUSTOMER NUMBER	SERVICE WEEK	INVOICE NUMBER
1	587-1961	8324-10	01-38	T80638

SERVICE DATE	ZONE MGR. NUMBER	CUSTOMER PURCHASE ORDER	PAYMENT TERMS
09/18/01	BT	60227246	Net 30

Page 1 of 1

B I L L T O	S OF HI-HARBOR DIVISION 79 South Nimitz Hwy. Honolulu HI 96813	L O C A T I O N	STATE OF HAWAII HARBOR DIV 48 SAND ISLE ACC RD HONOLULU HI 96819
--	--	--	--

ID / Description	Unit	Ordered	Shipped	Unit Price	Extension
5004 Truck/Bus, 8.25x12, Off Rim	Each	33	33	\$6.90	\$227.70
5003 Passenger/Light Truck, On Rim	Each	25	25	\$2.95	\$73.75
5002 Passenger/Light Truck, Off Rim	Each	36	36	\$1.35	\$48.60

[Handwritten signature]

CONTRACT SECTION

TERMS ARE NET 30 DAYS FROM SERVICE DATE. PAST DUE ACCOUNTS ARE SUBJECT TO A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM). IN THE EVENT OF DELINQUENCY, CUSTOMER HEREBY AGREES TO REIMBURSE UNITEK FOR ALL REASONABLE COLLECTION COSTS INCLUDING ATTORNEY'S FEES.

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CUSTOMER SIGNATURE X

[Handwritten signature]

SUB-TOTAL INVOICE AMOUNT	\$350.05
SALES TAX @ 4.166 %	\$14.58

INVOICE TOTAL

\$364.63

PAYMENT RECEIVED SECTION

<input type="checkbox"/> CASH	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S PRODUCTS AND SERVICES
		<input type="checkbox"/> PREVIOUS BALANCE AS FOLLOWS
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	
INV. #	AMOUNT \$	

ISLAND RECYCLING, INC.

1803 DILLINGHAM BLVD.
HONOLULU, HAWAII 96819
PHONE: (808) 845-1188

PUBLIC WEIGHT CERTIFICATE

No. 29391

STATE OF HAWAII CERTIFICATE OF WEIGHTS AND MEASURE-DEPARTMENT OF AGRICULTURE WEIGHTS & MEASURES DIVISION

THIS IS TO CERTIFY THAT THE FOLLOWING MERCHANDISE WAS WEIGHED, MEASURED, OR COUNTED BY A LICENSED WEIGHMASTER AND HIS SIGNATURE AND SEAL IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 486, HAWAII REVISED STATUTES, AS AMENDED, AND RULE 27.000 / 486.71.

WEIGHED FOR: DOT Harbors Div.

Phone No.:

CHARGE TO / ADDRESS:

COMMODITY:

Fee:

04-12-04 08:16:21 16220 Lbs.
~~04-12-04 08:23:25 14940 Lbs.~~
04-12-04 08:23:25 14940 Lbs.

W E I G H T
lbs. Gross
lbs. Tare
lbs. Net

NO
STATE OF HAWAII

OFFICIAL
MEASURE MASTER

DATE

NO
STATE OF HAWAII

OFFICIAL
MEASURE MASTER

DATE

CONTAINER NO.

TRAILER LICENSE NO. TRAILER LICENSE NO. TRAILER LICENSE NO.

PRINT NAME
SIGNATURE

PHONE

1 part.
31 parts
31 parts

ISLAND RECYCLING, INC.

1803 DILLINGHAM BLVD.
HONOLULU, HAWAII 96819
PHONE: (808) 845-1188

PUBLIC WEIGHT CERTIFICATE

No. 29390

STATE OF HAWAII CERTIFICATE OF WEIGHTS AND MEASURE-DEPARTMENT OF AGRICULTURE WEIGHTS & MEASURES DIVISION
THIS IS TO CERTIFY THAT THE FOLLOWING MERCHANDISE WAS WEIGHED, MEASURED, OR COUNTED BY A LICENSED WEIGHMASTER AND HIS SIGNATURE AND SEAL IS A RECOGNIZED AUTHORITY OF ACCURACY, AS PRESCRIBED BY CHAPTER 486, HAWAII REVISED STATUTES, AS AMENDED, AND RULE 27.000 / 486.71.

WEIGHED FOR: DOT 1077 Sale Phone No.: _____

CHARGE TO / ADDRESS: _____

COMMODITY: Truck / Bays Fee: _____

	W	E	I	G	H	T
04-12-04 07:50:27	18440	Gross				
04-12-04 07:58:27	14940	Tare				
		Net				

NO
STATE OF HAWAII

OFFICIAL
MEASURE MASTER

DATE

NO
STATE OF HAWAII

OFFICIAL
MEASURE MASTER

DATE

CONTAINER NO.

TRAILER LICENSE NO.	TRAILER LICENSE NO.	TRAILER LICENSE NO.
---------------------	---------------------	---------------------

PRINT NAME BT Mura PHONE _____
SIGNATURE _____

14 tuk
9 tuk w/pines

PUBLIC WEIGHT CERTIFICATE

No. 29388

WEIGHED FOR: DOT / Harbors Division

Phone No.:

CHARGE TO / ADDRESS:**COMMODITY:****Fee:**

04-12-04 07:18:01 18240 Lbs.

lbs. Gross

WE-011-

04-12-04 07:27:19 14920 Lbs.

lbs. Net

NO
STATE OF HAWAII

**OFFICIAL
MEASURE MASTER**

DATE _____

NO
STATE OF HAWAII

DATE _____

CONTAINER NO.

TRAILER LICENSE NO.	TRAILER LICENSE NO.	TRAILER LICENSE NO.
---------------------	---------------------	---------------------

PRINT NAME _____

PHONE

P.O. # 60729963

PRINT NAME _____
SIGNATURE *W. J. Arnold* _____

to park. 7 lines
to pass.



Post Office Box 30227
Honolulu, Hawaii 96820

Invoice

Date	Invoice #
5/21/2003	16921

Bill To
D. O. T/HARBORS DIVISION ATTN:CRAIG FUKUDA PIER 11 GALLERY 700 FORT ST. MALL HONOLULU, HAWAII 96813

DELIVERY
DROP OFF AT SAND ISLAND

P.O. #	Terms
J. NUTTER	NET 30

Date	Scale Tkt #	Item	Container #	Qty	Rate	Amount
5/14/2003	30580	TIRE SHRE...		3,140	0.15	471.00T
5/14/2003	30581	TIRE SHRE...		2,160	0.15	324.00T
5/14/2003	30582	TIRE SHRE...		2,960	0.15	444.00T
5/14/2003	30586	TIRE SHRE...		3,400	0.15	510.00T
5/14/2003	30591	TIRE SHRE...		3,860	0.15	579.00T
5/14/2003	30593	TIRE SHRE...		3,360	0.15	504.00T
5/14/2003	30594	TIRE SHRE...		3,340	0.15	501.00T
5/14/2003	30598	TIRE SHRE...		3,060	0.15	459.00T
5/14/2003	30600	TIRE SHRE...		3,200	0.15	480.00T
5/14/2003	30601	TIRE SHRE...		2,880	0.15	432.00T
5/15/2003	30625	TIRE SHRE...		5,280	0.15	792.00T
5/16/2003	29329	TIRE SHRE...		240	0.15	36.00T
5/16/2003	29324	TIRE SHRE...		2,800	0.15	420.00T
5/16/2003	29319	TIRE SHRE...		4,740	0.15	711.00T
		Sales Tax			4.167%	277.65

P.O./Contract _____
☒ Partial ☒ Full
 I certify that goods/services were satisfactorily
 received on 5/16/03 and recommend
 payment.
 Signature _____ Date 6/15/03

Please note that our mailing address has now changed to:
Post Office Box 30227, Honolulu, HI 96820

Total \$6,940.65

ON THIS DATE: 5/20/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 1

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 5/20/09

ON THIS DATE: 5-14-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 5

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 5-14-09

ON THIS DATE: 5-5-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 10

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 5-5-09

ON THIS DATE: 4-28-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 0

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: Melanin

ON THIS DATE: 4-28-09

ON THIS DATE: 4-22-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Saluda

ON THIS DATE: 4-22-09

ON THIS DATE: 4-15-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 5

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: April 15, 2009

ON THIS DATE: 4-13-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 5

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 4/13/09

ON THIS DATE: 4-08-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 14 BATTs

NUMBER OF BOAT LEAD ACID
BATTERIES (2)

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES (12)

REMARKS:

RECEIVED BY: *[Signature]* - *CYRIL S. HENRY*

ON THIS DATE: 4/7/09

ON THIS DATE: 3/19/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

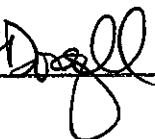
EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 2

NUMBER OF BOAT LEAD ACID
BATTERIES 7

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: McD 

ON THIS DATE: 3-19-09

ON THIS DATE: 3/17/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 2

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: 

ON THIS DATE: 3/17/09

ON THIS DATE: 3/12/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 8

NUMBER OF BOAT LEAD ACID
BATTERIES 3

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 3

REMARKS:

RECEIVED BY: 

ON THIS DATE: 3/12/09

ON THIS DATE: 2-19-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 3

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 1

REMARKS:

RECEIVED BY: M. McDougall Jma

ON THIS DATE: 2-19-09

ON THIS DATE: 1-30-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

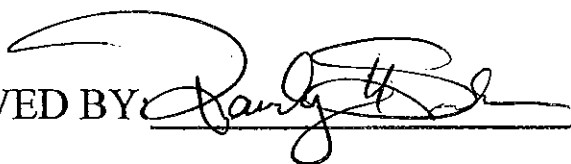
EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 3

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: 

ON THIS DATE: 1-30-09

B2-10
9-29-10

EXIDE TECHNOLOGIES

KALAELOA BLVD., C-12 KAPOLEI, HI 96707

PH. 808-882-4600

FX. 808-682-4413

DEPT OF TRANS
HARBORS DIVISION
GROUNDS UNIT

SCRAP BATTERY WEIGHT RECEIPT

CUSTOMER NAME:

ADDRESS:

PHONE NUMBER:

CONTACT

(PRINT - SIGN)

[illegible]

EXIDE EMPLOYEE:

(PRINT - SIGN)

ON THIS DATE: 1-15-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 8

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 1

REMARKS:

RECEIVED BY: 

ON THIS DATE: 1-15-09

ON THIS DATE: 1-12-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 1

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 1-12-09

ON THIS DATE: 11-19-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 1

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 11-29-09

ON THIS DATE: 11-13-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 8

NUMBER OF BOAT LEAD ACID
BATTERIES 3

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: 11-13-09

ON THIS DATE: Melanie McDougall

ON THIS DATE: 11-5-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: Nov 5, 2009

ON THIS DATE: 10-28-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 0

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 10-28-09

ON THIS DATE: 10.07.09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 6

NUMBER OF BOAT LEAD ACID
BATTERIES 10

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS: SOME (2) CRACKED & OPEN, & LIQUID ACID EXPOSED

RECEIVED BY: M. McDougall

ON THIS DATE: 10-7-09

ON THIS DATE: 9/30/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES _____

6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: _____

M. McDougall

ON THIS DATE: _____

9-30-09

ON THIS DATE: 9/22/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES _____

6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: _____

Melanie McQuinn

ON THIS DATE: _____

9-21-09

ON THIS DATE: Sept 2, 2009 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 5

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 9/2/09

ON THIS DATE: 8-28-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:


EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 10 MADET

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 8/28/09

ON THIS DATE: 8/12/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie Madougall

ON THIS DATE: 8-12-09

ON THIS DATE: 7/30/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 6

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 7-30-09

ON THIS DATE: 7/14/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 7-16-09

ON THIS DATE: 7-9-89 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES

4

NUMBER OF BOAT LEAD ACID
BATTERIES

5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES

REMARKS:

RECEIVED BY: Melanie

ON THIS DATE: 7-9-09

ON THIS DATE: 6/25/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 8

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 8

REMARKS:

RECEIVED BY: 6-25-09

ON THIS DATE: [Signature]

ON THIS DATE: 6-18-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 8

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: McDonnell

ON THIS DATE: 6-18-09

ON THIS DATE: 6-10-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

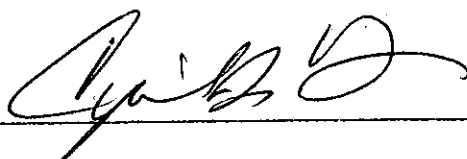
NUMBER OF CAR LEAD ACID
BATTERIES 3

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: 6-10-09

ON THIS DATE: 

ON THIS DATE: 6-3-09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 0

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: M. Laine

ON THIS DATE: 6-3-09

ON THIS DATE: 5/28 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: M McDougall

ON THIS DATE: 5-28

ON THIS DATE: 5/01/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES —

NUMBER OF BOAT LEAD ACID
BATTERIES 8

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES —

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 5/1/08

ON THIS DATE: 4/25/09 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

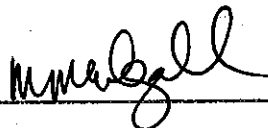
EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 10

NUMBER OF BOAT LEAD ACID
BATTERIES 10

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES N/A

REMARKS:

RECEIVED BY: 

ON THIS DATE: 4/25/09

ON THIS DATE: 4-22-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 5

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salada

ON THIS DATE: 4/22/08

ON THIS DATE: 4-16-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 6 _____

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 4-16-08

ON THIS DATE: 4/2/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 3

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: W. Salas

ON THIS DATE: 4-2-08

ON THIS DATE: 4-2-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 6 8D

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: M. Lani

770 #

ON THIS DATE: 4-2-08

ON THIS DATE: 2-27-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 6

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 1

REMARKS:

RECEIVED BY: *Sheldon Centron*

ON THIS DATE: 2-27-08

ON THIS DATE: 2/22/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 3

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES (1131) 105

REMARKS: 4 Floor scrubber batteries

RECEIVED BY: 

ON THIS DATE: 2/22/08

ON THIS DATE: 2-08-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 9

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 2-08-08

ON THIS DATE: 1-10-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES (4) CAR

NUMBER OF BOAT LEAD ACID
BATTERIES (5) BOAT

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie

ON THIS DATE: 1-10-08

ON THIS DATE: 1-10-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES (2) CAR

NUMBER OF BOAT LEAD ACID
BATTERIES ~~(1)~~ (7) BOAT

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie

ON THIS DATE: 1-10-08

ON THIS DATE: 12-16-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 8

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY:  _____

ON THIS DATE: 12-16-08

ON THIS DATE: 10-29-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 6 7

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 4

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 10/29/08

ON THIS DATE: 10/15/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 2

NUMBER OF BOAT LEAD ACID
BATTERIES 7

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 1

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 10/15/08

ON THIS DATE: 10/10/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 3

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 10/10/08

ON THIS DATE: 10-1-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 10-1-08

ON THIS DATE: 9/22/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 9-22-08

ON THIS DATE: 9/10/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 13

NUMBER OF BOAT LEAD ACID
BATTERIES 2

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 9/10/08

ON THIS DATE: 8/26/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 8 _____

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 8/26/08

ON THIS DATE: 7/16/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

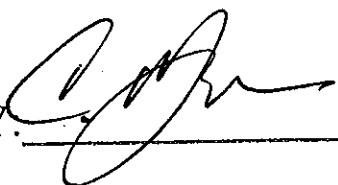
EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 1

NUMBER OF BOAT LEAD ACID
BATTERIES 7

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 7/16/08

ON THIS DATE: 7/1/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 14

NUMBER OF BOAT LEAD ACID
BATTERIES 2

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 7-1-08

ON THIS DATE: 6/19/08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Randy Selu

ON THIS DATE: 6/19/08

ON THIS DATE: 6-10-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 2

NUMBER OF BOAT LEAD ACID
BATTERIES 7

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 6/10/08

ON THIS DATE: 5-8-08 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 22

NUMBER OF BOAT LEAD ACID
BATTERIES _____

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: M McDougall

ON THIS DATE: 5/8/08

ON THIS DATE: 6-13-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: M. McDougall

ON THIS DATE: 6-13-07

ON THIS DATE: 6-6-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

698#

30 Batteries

RECEIVED BY: M. McDougall

ON THIS DATE: 6/6/07

ON THIS DATE: 5/8/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 1

NUMBER OF BOAT LEAD ACID
BATTERIES 7

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: _____

ON THIS DATE: 5-01-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES NINE (9)

NUMBER OF BOAT LEAD ACID
BATTERIES THREE (3)

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 5/1/07

ON THIS DATE: 4-23-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 12

NUMBER OF BOAT LEAD ACID
BATTERIES 3

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 4-23-07

ON THIS DATE: 4-12-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 5

NUMBER OF BOAT LEAD ACID
BATTERIES 11

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 4/12/07

ON THIS DATE: 04.03.07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 3

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 4/3/07

ON THIS DATE: 3-19-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 10

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 3/19/07

ON THIS DATE: 3-15-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 7

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 1

REMARKS:

1044 #

RECEIVED BY:

Melaine McDougall

ON THIS DATE:

3/15/07

ON THIS DATE: 3-13-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 10

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: McM Logell

ON THIS DATE: 3/13/07

ON THIS DATE: 1-31-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 1

NUMBER OF BOAT LEAD ACID
BATTERIES 7

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: M. Li

ON THIS DATE: 1-31-07

ON THIS DATE: 1-25-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 11

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 5

REMARKS:

RECEIVED BY: M. L. L.

ON THIS DATE: 1-25-07

ON THIS DATE: 12/10/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Randy Suh

ON THIS DATE: 12/10/07

ON THIS DATE: 11/27/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 12

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie

ON THIS DATE: 11/27/07

ON THIS DATE: 11/15/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 6

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 1

REMARKS:

995163

RECEIVED BY: 

ON THIS DATE: 11/15/07

✓

ON THIS DATE: 11/1/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: M. Magall

ON THIS DATE: 11/1/07

ON THIS DATE: 10/19/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 2 ea.

NUMBER OF BOAT LEAD ACID
BATTERIES 7 ea.

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Cyprian

ON THIS DATE: 10/19/07

ON THIS DATE: Oct 10, 2007 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 8

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 10/10/07

ON THIS DATE: 9/25/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 9/25/07

ON THIS DATE: 8-30-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 3

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melania

ON THIS DATE: 8/30/07

ON THIS DATE: 01-23-07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 9

NUMBER OF BOAT LEAD ACID
BATTERIES 2

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salvador

ON THIS DATE: 7/23/07

ON THIS DATE: 07.12.07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 7

NUMBER OF BOAT LEAD ACID
BATTERIES 5

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Melanie McIsaac

ON THIS DATE: 07.12.07

ON THIS DATE: 6/27/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES

3

NUMBER OF BOAT LEAD ACID
BATTERIES

12

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES

REMARKS:

RECEIVED BY: Melanie

ON THIS DATE: 6/27/07

ON THIS DATE: 6/19/07 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 4

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: Wayne Salazar

ON THIS DATE: 6/19/07

ON THIS DATE: 12/27/06 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES _____

NUMBER OF BOAT LEAD ACID
BATTERIES 8

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: M McDougall

ON THIS DATE: 12/27/06

ON THIS DATE: 12/14/06 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 7

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: M. McDougall

ON THIS DATE: 12-14-06

ON THIS DATE: 12/13/06 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 7

NUMBER OF BOAT LEAD ACID
BATTERIES 6

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES 0

REMARKS:

RECEIVED BY: Melanie McDougall

ON THIS DATE: 12/13/06

ON THIS DATE: 12/05/06 HAR/OCG

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

NUMBER OF CAR LEAD ACID
BATTERIES 9

NUMBER OF BOAT LEAD ACID
BATTERIES 4

NUMBER OF MOTOR CYCLE LEAD ACID
BATTERIES _____

REMARKS:

RECEIVED BY: 

ON THIS DATE: 12/7/06

DELIVERED THE FOLLOWING BATTERIES TO:

EXIDE TECHNOLOGIES
91-291 KALAELOA BLVD.
C-12
KAPOLEI, HAWAII 96707

ON THIS DATE DECEMBER 1, 2006

CAR BATTERIES 2

BOAT BATTERIES 10

MOTOR CYCLE BATTERIES _____

RECEIVED BY: Wayne Salvador

DATE 12/1/06

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:699080
---In--- ---Out---
Vehicle#: 447781 Date 11/09/09 11/09/09
Lic. Plate#: SH4974 Time 08:06 08:24
Tlr/Cont#: Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	9.25	749.25
Gross 49940 lbs - 24.97 tons	Tip Fee		749.25	
Tare 31440 lbs - 15.72 tons	Special Handling		0.00	
NET 18500 lbs - 9.25 tons	Recycling Surcharge		99.91 12.0%	
	State Surcharge		3.24 \$.35/tn	
	Amount		\$842.40	

NOTE:

John Lipton #4974 (pier 60)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:698177
---In--- ---Out---
Vehicle#: 447781 Date 10/30/09 10/30/09
Lic. Plate#: SH4974 Time 08:11 08:11
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	0.13	25.25
Gross 30460 lbs - 15.23 tons	Tip Fee		25.25	
Tare 30200 lbs - 15.10 tons	Special Handling		0.00	
NET 260 lbs - 0.13 tons	Recycling Surcharge		3.03 12.0%	
	State Surcharge		0.05 \$.35/tn	
	Amount		\$28.33	

NOTE:

John Lipton #4974 Kewalo Can #1 (Last one)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:697074
---In--- ---Out---
Vehicle#: 633941 Date 10/20/09 10/20/09
Lic. Plate#: SHD694 Time 10:25 10:25
Tlr/Cont#: Scale Operator: LG

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.74	140.94
Gross 32700 lbs - 16.35 tons	Tip Fee		140.94	
Tare 29220 lbs - 14.61 tons	Special Handling		0.00	
NET 3480 lbs - 1.74 tons	Recycling Surcharge		16.91 12.0%	
	State Surcharge		0.61 \$.35/tn	
	Amount		\$158.46	

NOTE:

*MAC
Hower closed*

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:696792
Vehicle#: 633941 ---In--- ---Out---
Lic. Plate#: SHD694 Date 10/19/09 10/19/09
Tlr/Cont#: Time 09:51 09:51
Scale Operator: LS
Material Type Rate Vol Tons Tip Fee
1000 - MSW TN (12) \$81.00/tn 0 5.86 474.66
Gross 40940 lbs - 20.47 tons Tip Fee 474.66
Tare 29220 lbs - 14.61 tons Special Handling 0.00
NET 11720 lbs - 5.86 tons Recycling Surcharge 56.96 12.0%
State Surcharge 2.05 \$.35/tn
Amount \$533.67

NOTE:

MAC
H-Power
closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:696849
Vehicle#: 633941 ---In--- ---Out---
Lic. Plate#: SHD694 Date 10/19/09 10/19/09
Tlr/Cont#: Time 11:56 11:56
Scale Operator: LS
Material Type Rate Vol Tons Tip Fee
1000 - MSW TN (12) \$81.00/tn 0 5.86 474.66
Gross 40940 lbs - 20.47 tons Tip Fee 474.66
Tare 29220 lbs - 14.61 tons Special Handling 84.25 OT-1
NET 11720 lbs - 5.86 tons Recycling Surcharge 67.07 12.0%
State Surcharge 2.05 \$.35/tn
Amount \$628.03

NOTE:PER WM SPLH LOAD.

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:696149
Vehicle#: 633941 ---In--- ---Out---
Lic. Plate#: SHD694 Date 10/16/09 10/16/09
Tlr/Cont#: Time 10:05 10:05
Scale Operator: RN
Material Type Rate Vol Tons Tip Fee
1000 - MSW TN (12) \$81.00/tn 0 1.75 141.75
Gross 32720 lbs - 16.36 tons Tip Fee 141.75
Tare 29220 lbs - 14.61 tons Special Handling 0.00
NET 3500 lbs - 1.75 tons Recycling Surcharge 17.01 12.0%
State Surcharge 0.61 \$.35/tn
Amount \$159.37

NOTE:

MAC
H-Power
closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:695851
---In--- ---Out---
Vehicle#: 633941 Date 10/15/09 10/15/09
Lic. Plate#: SHD694 Time 08:56 08:56
Tlr/Cont#: Scale Operator: RB
Material Type Rate Vol Tons Tip Fee
1000 - MSW TN (12) \$81.00/tn 0 1.58 127.98
Gross 32380 lbs - 16.19 tons Tip Fee 127.98
Tare 29220 lbs - 14.61 tons Special Handling 0.00
NET 3160 lbs - 1.58 tons Recycling Surcharge 15.36 12.0%
State Surcharge 0.55 \$.35/tn
===== Amount \$143.89

NOTE:

MAC
H7000 - closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:693863
---In--- ---Out---
Vehicle#: 447781 Date 09/25/09 09/25/09
Lic. Plate#: SH4974 Time 08:48 08:48
Tlr/Cont#: Scale Operator: RB
Material Type Rate Vol Tons Tip Fee
1000 - MSW TN (12) \$81.00/tn 0 2.12 171.72
Gross 34440 lbs - 17.22 tons Tip Fee 171.72
Tare 30200 lbs - 15.10 tons Special Handling 0.00
NET 4240 lbs - 2.12 tons Recycling Surcharge 20.61 12.0%
State Surcharge 0.74 \$.35/tn
===== Amount \$193.07

NOTE:

John Lyle #4974 (Kenale)
(TOOK OUT ALL F-LINE)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:691676
---In--- ---Out---
Vehicle#: 585947 Date 09/06/09 09/06/09
Lic. Plate#: SH9492 Time 08:17 08:17
Tlr/Cont#: Scale Operator: LS
Material Type Rate Vol Tons Tip Fee
1000 - MSW TN (12) \$81.00/tn 0 2.25 182.25
Gross 32400 lbs - 16.20 tons Tip Fee 182.25
Tare 27900 lbs - 13.95 tons Special Handling 84.25 OT-1
NET 4500 lbs - 2.25 tons Recycling Surcharge 31.98 12.0%
State Surcharge 0.79 \$.35/tn
===== Amount \$299.27

***** REPRINTED TICKET *****

NOTE: splh per WM. load contains fishnets. replacement for trans# 691673.

John Lyle #9492

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:691673
Vehicle#: 585947 ---In--- ---Out---
Lic. Plate#: SH9492 Date 09/06/09 09/06/09
Tlr/Cont#: Time 07:58 07:58
Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	2.25	182.25
Gross 32400 lbs - 16.20 tons				182.25
Tare 27900 lbs - 13.95 tons				0.00
NET 4500 lbs - 2.25 tons				21.87 12.0%
				0.79 \$.35/tn
				Amount \$204.91

*** VOID ***** REPRINTED TICKET ***** VOID ***
NOTE:Void Reason: splh needed per wm. good trans# 691676.

John Lyster #9492 Holiday/Refuse

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:691486
Vehicle#: 447781 ---In--- ---Out---
Lic. Plate#: SH4974 Date 09/04/09 09/04/09
Tlr/Cont#: Time 08:22 08:22
Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.98	160.38
Gross 34160 lbs - 17.08 tons				160.38
Tare 30200 lbs - 15.10 tons				0.00
NET 3960 lbs - 1.98 tons				19.25 12.0%
				0.69 \$.35/tn
				Amount \$180.32

NOTE:

John Lyster #4974 (Kenabo Can)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:688135
Vehicle#: 447781 ---In--- ---Out---
Lic. Plate#: SH4974 Date 08/07/09 08/07/09
Tlr/Cont#: Time 07:51 07:51
Scale Operator: PP

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	2.11	170.91
Gross 34420 lbs - 17.21 tons				170.91
Tare 30200 lbs - 15.10 tons				0.00
NET 4220 lbs - 2.11 tons				20.51 12.0%
				0.74 \$.35/tn
				Amount \$192.16

NOTE:

Miles Kenabo can

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:685893
---In--- ---Out---
Vehicle#: 585947 Date 07/21/09 07/21/09
Lic. Plate#: SH9492 Time 09:16 09:16
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.54	124.74
Gross 30980 lbs - 15.49 tons	Tip Fee		124.74	
Tare 27900 lbs - 13.95 tons	Special Handling		0.00	
NET 3080 lbs - 1.54 tons	Recycling Surcharge		14.97 12.0%	
	State Surcharge		0.54 \$.35/tn	
	Amount		\$140.25	

NOTE:

MAC
HPower closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:685680
---In--- ---Out---
Vehicle#: 585947 Date 07/20/09 07/20/09
Lic. Plate#: SH9492 Time 10:54 10:54
Tlr/Cont#: Scale Operator: PP

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	3.71	300.51
Gross 35320 lbs - 17.66 tons	Tip Fee		300.51	
Tare 27900 lbs - 13.95 tons	Special Handling		0.00	
NET 7420 lbs - 3.71 tons	Recycling Surcharge		36.06 12.0%	
	State Surcharge		1.30 \$.35/tn	
	Amount		\$337.87	

NOTE:

MAC
HPOWER closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:684903
---In--- ---Out---
Vehicle#: 633941 Date 07/17/09 07/17/09
Lic. Plate#: SHD694 Time 09:38 09:38
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	2.34	189.54
Gross 33900 lbs - 16.95 tons	Tip Fee		189.54	
Tare 29220 lbs - 14.61 tons	Special Handling		0.00	
NET 4680 lbs - 2.34 tons	Recycling Surcharge		22.74 12.0%	
	State Surcharge		0.82 \$.35/tn	
	Amount		\$213.10	

NOTE:

MAC
HPower closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:684572
---In--- ---Out---
Vehicle#: 633941 Date 07/16/09 07/16/09
Lic. Plate#: SHD694 Time 09:10 09:10
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	2.02	163.62
Gross 33260 lbs - 16.63 tons				Tip Fee 163.62
Tare 29220 lbs - 14.61 tons				Special Handling 0.00
NET 4040 lbs - 2.02 tons				Recycling Surcharge 19.63 12.0%
				State Surcharge 0.71 \$.35/tn
				=====
				Amount \$183.96

NOTE:

MAC
HPOWER closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:684270
---In--- ---Out---
Vehicle#: 633941 Date 07/15/09 07/15/09
Lic. Plate#: SHD694 Time 09:17 09:17
Tlr/Cont#: Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.65	133.65
Gross 32520 lbs - 16.26 tons				Tip Fee 133.65
Tare 29220 lbs - 14.61 tons				Special Handling 0.00
NET 3300 lbs - 1.65 tons				Recycling Surcharge 16.04 12.0%
				State Surcharge 0.58 \$.35/tn
				=====
				Amount \$150.27

NOTE:

SAM
REFUSE
H-POWER closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:683948
---In--- ---Out---
Vehicle#: 633941 Date 07/14/09 07/14/09
Lic. Plate#: SHD694 Time 09:23 09:23
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.51	122.31
Gross 32240 lbs - 16.12 tons				Tip Fee 122.31
Tare 29220 lbs - 14.61 tons				Special Handling 0.00
NET 3020 lbs - 1.51 tons				Recycling Surcharge 14.68 12.0%
				State Surcharge 0.53 \$.35/tn
				=====
				Amount \$137.52

NOTE:

MAC
HPOWER closed

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:683864
---In--- ---Out---
Vehicle#: 447781 Date 07/14/09 07/14/09
Lic. Plate#: SH4974 Time 07:39 07:39
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	2.02	163.62
Gross 34240 lbs - 17.12 tons	Tip Fee		163.62	
Tare 30200 lbs - 15.10 tons	Special Handling		0.00	
NET 4040 lbs - 2.02 tons	Recycling Surcharge		19.63 12.0%	
	State Surcharge		0.71 \$.35/tn	
	Amount		\$183.96	

NOTE:

John Light #4974 (Kewala Can)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:682935
---In--- ---Out---
Vehicle#: 633941 Date 07/10/09 07/10/09
Lic. Plate#: SHD694 Time 09:02 09:30
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.71	138.51
Gross 32640 lbs - 16.32 tons	Tip Fee		138.51	
Tare 29220 lbs - 14.61 tons	Special Handling		0.00	
NET 3420 lbs - 1.71 tons	Recycling Surcharge		16.62 12.0%	
	State Surcharge		0.60 \$.35/tn	
	Amount		\$155.73	

NOTE:

*SAM
REFUSE
H.P. closed*

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:682712
---In--- ---Out---
Vehicle#: 633941 Date 07/09/09 07/09/09
Lic. Plate#: SHD694 Time 09:52 10:48
Tlr/Cont#: MSW Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.72	139.32
Gross 32300 lbs - 16.15 tons	Tip Fee		139.32	
Tare 28860 lbs - 14.43 tons	Special Handling		0.00	
NET 3440 lbs - 1.72 tons	Recycling Surcharge		16.72 12.0%	
	State Surcharge		0.60 \$.35/tn	
	Amount		\$156.64	

NOTE:

*MAC
H Power closed*

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:682142
---In--- ---Out---
Vehicle#: 633941 Date 07/05/09 07/05/09
Lic. Plate#: SHD694 Time 07:47 08:04
Tlr/Cont#: MSW Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	2.42	196.02
Gross 34000 lbs - 17.00 tons	Tip Fee		196.02	
Tare 29160 lbs - 14.58 tons	Special Handling		0.00	
NET 4840 lbs - 2.42 tons	Recycling Surcharge		23.52 12.0%	
	State Surcharge		0.85 \$.35/tn	
	Amount		\$220.39	

NOTE:

MA^C

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:681447
---In--- ---Out---
Vehicle#: 447781 Date 06/30/09 06/30/09
Lic. Plate#: SH4974 Time 08:55 08:55
Tlr/Cont#: Scale Operator: PP

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	2.22	179.82
Gross 34640 lbs - 17.32 tons	Tip Fee		179.82	
Tare 30200 lbs - 15.10 tons	Special Handling		0.00	
NET 4440 lbs - 2.22 tons	Recycling Surcharge		21.58 12.0%	
	State Surcharge		0.78 \$.35/tn	
	Amount		\$202.18	

NOTE:

John Lytze
(Kewalo Can)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:681447
---In--- ---Out---
Vehicle#: 447781 Date 06/30/09 06/30/09
Lic. Plate#: SH4974 Time 08:55 08:55
Tlr/Cont#: Scale Operator: PP

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	2.22	179.82
Gross 34640 lbs - 17.32 tons	Tip Fee		179.82	
Tare 30200 lbs - 15.10 tons	Special Handling		0.00	
NET 4440 lbs - 2.22 tons	Recycling Surcharge		21.58 12.0%	
	State Surcharge		0.78 \$.35/tn	
	Amount		\$202.18	

John Lytze (Kewalo Can)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:675904
Vehicle#: 583405 Date 05/15/09 05/15/09
Lic. Plate#: SH9272 Time 09:38 10:14
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	0.30	25.25
Gross 34200 lbs - 17.10 tons	Tip Fee		25.25	
Tare 33600 lbs - 16.80 tons	Special Handling		0.00	
NET 600 lbs - 0.30 tons	Recycling Surcharge		3.03 12.0%	
	State Surcharge		0.11 \$.35/tn	
	Amount		\$28.39	

NOTE:

SAM
KEWALO CAN
ALL BURN

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:674607
Vehicle#: 583405 Date 05/04/09 05/04/09
Lic. Plate#: SH9272 Time 08:07 08:41
Tlr/Cont#: MSW Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	0.64	51.84
Gross 34400 lbs - 17.20 tons	Tip Fee		51.84	
Tare 33120 lbs - 16.56 tons	Special Handling		0.00	
NET 1280 lbs - 0.64 tons	Recycling Surcharge		6.22 12.0%	
	State Surcharge		0.22 \$.35/tn	
	Amount		\$58.28	

NOTE:

John Lytle

KEWALO

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:672360
Vehicle#: 503495 Date 04/14/09 04/14/09
Lic. Plate#: SH8490 Time 10:00 10:10
Tlr/Cont#: Scale Operator: CP

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	0.56	45.36
Gross 15900 lbs - 7.95 tons	Tip Fee		45.36	
Tare 14780 lbs - 7.39 tons	Special Handling		84.25 OT-1	
NET 1120 lbs - 0.56 tons	Recycling Surcharge		15.55 12.0%	
	State Surcharge		0.20 \$.35/tn	
	Amount		\$145.36	

NOTE:WM ADDED SPECIAL HANDLINE 4 LINE IN LOAD.CP

SAM
SUGAR
9-17 9 OAHU LUMBER

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:671233
---In--- ---Out---
Vehicle#: 583405 Date 04/03/09 04/03/09
Lic. Plate#: SH9272 Time 09:17 09:45
Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	0.47	38.07
Gross 34300 lbs - 17.15 tons	Tip Fee		38.07	
Tare 33360 lbs - 16.68 tons	Special Handling		84.25	OT-1
NET 940 lbs - 0.47 tons	Recycling Surcharge		14.68	12.0%
	State Surcharge		0.16	\$0.35/tn
	Amount		\$137.16	

NOTE:fishing nets

John Light (Kewalo Can)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:669328
---In--- ---Out---
Vehicle#: 583405 Date 03/19/09 03/19/09
Lic. Plate#: SH9272 Time 07:53 08:13
Tlr/Cont#: FISH NETS Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.69	136.89
Gross 33920 lbs - 16.96 tons	Tip Fee		136.89	
Tare 30540 lbs - 15.27 tons	Special Handling		84.25	OT-1
NET 3380 lbs - 1.69 tons	Recycling Surcharge		26.54	12.0%
	State Surcharge		0.59	\$0.35/tn
	Amount		\$248.27	

NOTE:

John Light F-LINE & NET

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:667761
---In--- ---Out---
Vehicle#: 633941 Date 03/05/09 03/05/09
Lic. Plate#: SHD694 Time 09:35 10:20
Tlr/Cont#: Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.19	96.39
Gross 31080 lbs - 15.54 tons	Tip Fee		96.39	
Tare 28700 lbs - 14.35 tons	Special Handling		0.00	
NET 2380 lbs - 1.19 tons	Recycling Surcharge		11.57	12.0%
	State Surcharge		0.42	\$0.35/tn
	Amount		\$108.38	

NOTE:

SAM.
REFUSE

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: 005231 - STATE-HARBORS DIV-CAHU DIST Transaction#:655187
Vehicle#: 001104 Date 02/23/05 02/23/05
Lic. Plate#: SH9270 Time 07:35 08:17
Tlr/Cont#: 0000 Scale Operator: 00

Material Type	Rate	Vol	Tons	Tip Fee
1000 - YEM (12)	\$81.20/tn	0	1.43	117.45
Gross 3112 lbs - 11.05 tons	Tip Fee		117.45	
Tare 27517 lbs - 11.91 tons	Special Handling		24.25 07-1	
NET 3162 lbs - 1.43 tons	Recycling Surcharge		24.25 12.0%	
	State Surcharge		2.51 \$.35/tn	
	Amount		\$226.41	

S. Samuel

SUGIE
OAHU LUMBER

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: 005231 - STATE-HARBORS DIV-CAHU DIST Transaction#:655775
Vehicle#: 003941 ---In--- ---Out---
Lic. Plate#: SH0594 Date 02/24/05 02/24/05
Tlr/Cont#: Time 09:12 10:25
Scale Operator: 02

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.20/tn	0	1.45	117.45
Gross 31952 lbs - 15.98 tons	Tip Fee		117.45	
Tare 29060 lbs - 14.53 tons	Special Handling		24.25 07-1	
NET 2990 lbs - 1.45 tons	Recycling Surcharge		24.25 12.0%	
	State Surcharge		2.51 \$.35/tn	
	Amount		\$226.41	

NOTE: Fishing net per 105111

SAM
REFUSE

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: 005231 - STATE-HARBORS DIV-CAHU DIST Transaction#:655489
Vehicle#: 503405 ---In--- ---Out---
Lic. Plate#: SH9272 Date 02/23/05 02/23/05
Tlr/Cont#: Time 07:42 09:21
Scale Operator: 02

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.20/tn	0	0.70	56.70
Gross 34530 lbs - 17.45 tons	Tip Fee		56.70	
Tare 33500 lbs - 16.75 tons	Special Handling		0.00	
NET 1400 lbs - 0.70 tons	Recycling Surcharge		6.80 12.0%	
	State Surcharge		0.25 \$.35/tn	
	Amount		\$63.75	

NOTE:

John Lytle Kexale

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:654366
Vehicle#: 583405 Date 02/13/09 02/13/09
Lic. Plate#: SH9272 Time 08:40 09:15
Tlr/Cont#: Scale Operator: RE

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	0.79	63.99
Gross 35060 lbs - 17.53 tons	Tip Fee		63.99	
Tare 33480 lbs - 16.74 tons	Special Handling		0.00	
NET 1580 lbs - 0.79 tons	Recycling Surcharge		7.58 12.0%	
	State Surcharge		0.28 \$.35/tn	
	Amount		\$71.95	

NOTE:

John Lytle (Kewalo Can)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:662623
Vehicle#: 583405 Date 01/30/09 01/30/09
Lic. Plate#: SH9272 Time 07:10 07:35
Tlr/Cont#: FISHING NETS Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.24	100.44
Gross 32840 lbs - 16.42 tons	Tip Fee		100.44	
Tare 30360 lbs - 15.18 tons	Special Handling		84.25 OT-1	
NET 2480 lbs - 1.24 tons	Recycling Surcharge		22.16 12.0%	
	State Surcharge		0.43 \$.35/tn	
	Amount		\$207.28	

NOTE:

John Lytle (OAHU LUMBER) F-Line, Rope, Net.

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:661741
Vehicle#: 583405 Date 01/22/09 01/22/09
Lic. Plate#: SH9272 Time 08:33 09:22
Tlr/Cont#: Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	0.60	48.60
Gross 34660 lbs - 17.33 tons	Tip Fee		48.60	
Tare 33460 lbs - 16.73 tons	Special Handling		0.00	
NET 1200 lbs - 0.60 tons	Recycling Surcharge		5.83 12.0%	
	State Surcharge		0.21 \$.35/tn	
	Amount		\$54.64	

NOTE:

John Lytle (Kewalo Can)

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:661126
 Vehicle#: 585947 Date 01/18/09 01/18/09
 Lic. Plate#: SH9492 Time 07:22 07:22
 Tlr/Cont#: Scale Operator: LS

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.89	153.09
Gross 31680 lbs - 15.84 tons				Tip Fee 153.09
Tare 27900 lbs - 13.95 tons				Special Handling 0.00
NET 3780 lbs - 1.89 tons				Recycling Surcharge 18.37 12.0%
				State Surcharge 0.66 \$.35/tn
				=====
				Amount \$172.12

NOTE: *REFUSE*

CITY AND COUNTY OF HONOLULU - REFUSE RECEIPT
WAIMANALO GULCH SANITARY LANDFILL

Bill Acct: D05231 - STATE-HARBORS DIV-OAHU DIST Transaction#:660754
 Vehicle#: 585947 Date 01/15/09 01/15/09
 Lic. Plate#: SH9492 Time 09:14 09:14
 Tlr/Cont#: Scale Operator: RB

Material Type	Rate	Vol	Tons	Tip Fee
1000 - MSW TN (12)	\$81.00/tn	0	1.14	92.34
Gross 30180 lbs - 15.09 tons				Tip Fee 92.34
Tare 27900 lbs - 13.95 tons				Special Handling 0.00
NET 2280 lbs - 1.14 tons				Recycling Surcharge 11.08 12.0%
				State Surcharge 0.40 \$.35/tn
				=====
				Amount \$103.82

NOTE:

*MAC
Hower closed*

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/26/2009 Time 1/0 07:42a/07:42a
TICKET # 340755 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,200
TARE 30,840
NET 1,360
NET TONS .68
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/24/2009 Time 1/0 09:39a/09:39a
TICKET # 340561 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,940
TARE 30,840
NET 1,100
NET TONS .55
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/23/2009 Time 1/0 09:57a/09:57a
TICKET # 340282 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 34,100
TARE 30,840
NET 3,260
NET TONS 1.63
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
KJOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/22/2009 Time 1/0 10:16a/10:16a
TICKET # 340013 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,860
TARE 30,840
NET 3,020
NET TONS 1.51
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
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when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/21/2009 Time 1/0 09:59a/09:59a
TICKET # 339667 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 35,980
TARE 30,840
NET 5,140
NET TONS 2.57
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
KJOSHUA
MEASUREMASTER

John Lyle # 12/26/94

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/17/2009 Time 1/0 09:52a/09:52a
TICKET # 338853 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,860
TARE 30,840
NET 1,020
NET TONS .51
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURADKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/16/2009 Time 1/0 09:17a/09:17a
TICKET # 338576 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,840
TARE 30,840
NET 2,000
NET TONS 1.00
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
MOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/15/2009 Time 1/0 09:12a/09:12a
TICKET # 338282 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,640
TARE 30,840
NET 800
NET TONS .40
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURADKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/13/2009 Time 1/0 09:42a/09:42a
TICKET # 339100 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,000
TARE 30,840
NET 160
NET TONS .23
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3410

STATE OF HAWAII
REGISTERED INITIALS
NHAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/14/2009 Time 1/0 10:13a/10:13a
TICKET # 338015 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 34,200
TARE 30,840
NET 3,360
NET TONS 1.68
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
MOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/11/2009 Time 1/0 09:40:40a
TICKET # 337400 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,560
TARE 30,840
NET 720
NET TONS .24
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039
STATE OF HAWAII
REGISTERED INITIALS
MUSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/10/2009 Time 1/0 09:29:29a
TICKET # 337199 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,440
TARE 30,840
NET 1,600
NET TONS .80
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364
STATE OF HAWAII
REGISTERED INITIALS
CHURADKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/09/2009 Time 1/0 09:21a/09:21a
TICKET # 336925 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,360
TARE 30,840
NET 520
NET TONS .24
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039
STATE OF HAWAII
REGISTERED INITIALS
MUSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/08/2009 Time 1/0 10:08a/10:08a
TICKET # 336663 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,580
TARE 30,840
NET 1,740
NET TONS .87
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364
STATE OF HAWAII
REGISTERED INITIALS
CHURADKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/07/2009 Time 1/0 09:44a/09:44a
TICKET # 336340 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 36,540
TARE 30,840
NET 5,700
NET TONS 2.85
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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when sealed by measuremaster.

No. 49039
STATE OF HAWAII
REGISTERED INITIALS
MUSHUA
MEASUREMASTER

REPRINT

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/04/2009 Time 1/0 09:50a/09:50a
TICKET # 335826 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,120
TARE 30,840
NET 2,280
NET TONS 1.14
COMMENT Not Entered

MA

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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No. 49039
STATE OF HAWAII
REGISTERED INITIALS
MOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/03/2009 Time 1/0 09:23a/09:23a
TICKET # 335540 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,960
TARE 30,840
NET 1,120
NET TONS .56
COMMENT Not Entered

MA

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
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when sealed by measuremaster.

No. 3364
STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/02/2009 Time 1/0 10:19a/10:19a
TICKET # 335251 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,540
TARE 30,840
NET 1,700
NET TONS .85
COMMENT Not Entered

MA

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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No. 49039
STATE OF HAWAII
REGISTERED INITIALS
MOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/01/2009 Time 1/0 10:13a/10:13a
TICKET # 334983 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,160
TARE 30,840
NET 2,320
NET TONS 1.16
COMMENT Not Entered

MA

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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when sealed by measuremaster.

No. 3364
STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/30/2009 Time 1/0 09:57a/09:57a
TICKET # 334672 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 37,280
TARE 30,840
NET 6,440
NET TONS 3.22
COMMENT Not Entered

MA

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364
STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

REPRINT

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/04/2009 Time 1/0 09:50a/09:58a
TICKET # 335826 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,120
TARE 30,840
NET 2,280
NET TONS 1.14
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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No. 49039

STATE OF HAWAII
REGISTERED INITIALS
MOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/03/2009 Time 1/0 09:23a/09:23a
TICKET # 335540 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,960
TARE 30,840
NET 1,120
NET TONS .56
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/02/2009 Time 1/0 10:19a/10:19a
TICKET # 335251 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,540
TARE 30,840
NET 1,700
NET TONS .85
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
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No. 49039

STATE OF HAWAII
REGISTERED INITIALS
MOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 12/01/2009 Time 1/0 10:13a/10:13a
TICKET # 334983 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,160
TARE 30,840
NET 2,320
NET TONS 1.16
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
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when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/30/2009 Time 1/0 09:57a/09:57a
TICKET # 334672 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 37,280
TARE 30,840
NET 6,440
NET TONS 3.22
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
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when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/27/2009 Time 1/0 10:35a/10:35a
TICKET # 334193 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 34,800
TAKE 30,840
NET 3,960
NET TONS 1.98
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
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shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURADKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/25/2009 Time 1/0 10:06a/10:06a
TICKET # 333754 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,480
TAKE 30,840
NET 1,640
NET TONS .82
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURADKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/24/2009 Time 1/0 09:59a/09:59a
TICKET # 333486 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 30,940
TAKE 30,840
NET 100
NET TONS .05
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURADKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/23/2009 Time 1/0 09:58a/09:58a
TICKET # 333189 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 35,240
TAKE 30,840
NET 4,400
NET TONS 2.20
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3388

STATE OF HAWAII
REGISTERED INITIALS
LVIERKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/20/2009 Time 1/0 09:48a/09:48a
TICKET # 332669 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,480
TAKE 30,840
NET 1,640
NET TONS .82
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3388

STATE OF HAWAII
REGISTERED INITIALS
LVIERKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/19/2009 Time I/O 09:19a/09:19a
TICKET # 332370 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,180
TARE 30,840
NET 1,340
NET TONS .67
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CMURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/18/2009 Time I/O 09:37a/09:37a
TICKET # 332127 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,620
TARE 30,840
NET 780
NET TONS .39
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/17/2009 Time I/O 09:52a/09:52a
TICKET # 331874 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,860
TARE 30,840
NET 1,020
NET TONS .51
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CMURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/16/2009 Time I/O 09:29a/09:29a
TICKET # 331578 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 37,360
TARE 30,840
NET 6,520
NET TONS 3.26
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/13/2009 Time I/O 09:50a/09:50a
TICKET # 331039 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,540
TARE 30,840
NET 2,700
NET TONS 1.35
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
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when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/10/2009 Time 10:42a/10:42a
TICKET # 330203 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,400
TARE 30,840
NET 1,640
NET TONS .82
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CMURAKO
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/12/2009 Time 10:28a/10:28a
TICKET # 330771 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,440
TARE 30,840
NET 2,600
NET TONS 1.30
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CMURAKO
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/09/2009 Time 10:28a/10:28a
TICKET # 329904 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 35,400
TARE 30,840
NET 4,640
NET TONS 2.32
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/06/2009 Time 10:15a/10:15a
TICKET # 329432 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,900
TARE 30,840
NET 1,060
NET TONS .53
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/05/2009 Time 10:14a/10:24a
TICKET # 329168 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 30,780
TARE 29,220
NET 1,560
NET TONS .78
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CMURAKO
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/04/2009 Time I/O 09:42a/09:42a
TICKET # 328876 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 30,980
TAKE 30,840
NET 140
NET TONS .07
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/03/2009 Time I/O 09:21a/09:21a
TICKET # 328630 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,400
TAKE 30,840
NET 560
NET TONS .28
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
NJOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 11/02/2009 Time I/O 12:53p/12:53p
TICKET # 328452 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 38,700
TAKE 30,840
NET 7,860
NET TONS 3.93
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/30/2009 Time I/O 09:45a/09:45a
TICKET # 327871 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,780
TAKE 30,840
NET 1,940
NET TONS .97
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/29/2009 Time I/O 09:21a/09:21a
TICKET # 327575 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,260
TAKE 30,840
NET 1,420
NET TONS .71
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
NJOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/28/2009 Time 1/0 09:41a/09:41a
TICKET # 327347 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 34,100
TARE 30,840
NET 3,260
NET TONS 1.63
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725
STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/27/2009 Time 1/0 09:29a/09:29a
TICKET # 327075 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,040
TARE 30,840
NET 1,200
NET TONS .60
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039
STATE OF HAWAII
REGISTERED INITIALS
MOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/26/2009 Time 1/0 10:01a/10:01a
TICKET # 326796 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 37,760
TARE 30,840
NET 6,920
NET TONS 3.46
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725
STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/23/2009 Time 1/0 09:51a/09:51a
TICKET # 326307 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,560
TARE 30,840
NET 1,720
NET TONS .86
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725
STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/22/2009 Time 1/0 09:18a/09:18a
TICKET # 326041 VEHICLE # STD694
LICENSE # STD694 TLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,260
TARE 30,840
NET 2,420
NET TONS 1.21
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039
STATE OF HAWAII
REGISTERED INITIALS
MOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/21/2009 Time 17:00:52a/09:52a
TICKET # 325201 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,640
TARE 30,840
NET 1,800
NET TONS .90
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

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identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/14/2009 Time 17:00:22a/09:22a
TICKET # 325220 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,040
TARE 30,840
NET 1,200
NET TONS .60
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
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shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

REPRINT

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/13/2009 Time 17:00:29a/10:29a
TICKET # 325066 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 34,600
TARE 30,840
NET 3,760
NET TONS 1.88
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
KJOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/12/2009 Time 17:00:06a/10:06a
TICKET # 324775 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 36,600
TARE 30,840
NET 5,760
NET TONS 2.88
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/09/2009 Time 17:00:30a/09:30a
TICKET # 324445 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,660
TARE 30,840
NET 1,820
NET TONS .91
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/05/2009 Time 10:03:10:03a
TICKET # 323440 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered
YARD Not Entered
ROUTE Not Entered
GROSS 37,500
TARE 30,840
NET 6,660
NET TONS 3.33
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
J. BAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/06/2009 Time 10:10:28:10:28a
TICKET # 323735 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered
YARD Not Entered
ROUTE Not Entered
GROSS 33,420
TARE 30,840
NET 2,580
NET TONS 1.27
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
J. MOOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/08/2009 Time 10:10:30:10:30a
TICKET # 324238 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered
YARD Not Entered
ROUTE Not Entered
GROSS 37,500
TARE 30,840
NET 6,660
NET TONS 3.33
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
J. MOOSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/01/2009 Time 10:10:19:10:19a
TICKET # 322692 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered
YARD Not Entered
ROUTE Not Entered
GROSS 32,940
TARE 30,840
NET 2,100
NET TONS 1.05
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
J. CHIRAKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 10/02/2009 Time 10:09:52:10:09:52a
TICKET # 322947 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered
YARD Not Entered
ROUTE Not Entered
GROSS 33,240
TARE 30,840
NET 2,400
NET TONS 1.21
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
J. BAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/30/2009 Time 1/0 09:49a/09:49a
TICKET # 323419 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,720
TARE 30,840
NET 1,880
NET TONS .96
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/29/2009 Time 1/0 09:23a/09:23a
TICKET # 323413 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,200
TARE 30,840
NET 1,360
NET TONS .68
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3726

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/28/2009 Time 1/0 10:15a/10:15a
TICKET # 321887 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 36,660
TARE 30,840
NET 5,820
NET TONS 2.91
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/25/2009 Time 1/0 10:03a/10:03a
TICKET # 321406 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,320
TARE 30,840
NET 1,480
NET TONS .74
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3688

STATE OF HAWAII
REGISTERED INITIALS
LVIERA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/24/2009 Time 1/0 09:32a/09:32a
TICKET # 321899 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 32,640
TARE 30,840
NET 1,800
NET TONS .96
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3410

STATE OF HAWAII
REGISTERED INITIALS
MHAKE
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/23/2009 Time 1/0 09:32a/09:32a
TICKET # 320797 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231

ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,800
TARE 30,840
NET 960
NET TONS .48
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3308

STATE OF HAWAII
REGISTERED INITIALS
L. L. LUIKOA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/21/2009 Time 1/0 10:23a/10:23a
TICKET # 320193 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231

ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 36,800
TARE 30,840
NET 5,960
NET TONS 2.98
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
L. L. BAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/17/2009 Time 1/0 10:10a/10:10a
TICKET # 319422 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231

ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 35,400
TARE 30,840
NET 4,560
NET TONS 2.28
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49839

STATE OF HAWAII
REGISTERED INITIALS
L. L. MUSHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/18/2009 Time 1/0 10:02a/10:02a
TICKET # 319659 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231

ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 34,540
TARE 30,840
NET 3,700
NET TONS 1.85
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3726

STATE OF HAWAII
REGISTERED INITIALS
L. L. JOHLEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/16/2009 Time 1/0 15:07a/10:07a
TICKET # 319146 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ADT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,220
TARE 30,840
NET 2,380
NET TONS 1.19
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/15/2009 Time 1/0 10:20a/10:20a
TICKET # 318890 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ADT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,660
TARE 30,840
NET 2,820
NET TONS 1.41
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 49039

STATE OF HAWAII
REGISTERED INITIALS
WTOCHUA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/14/2009 Time 1/0 10:35a/10:35a
TICKET # 318599 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ADT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 40,400
TARE 30,840
NET 9,560
NET TONS 4.82
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3775

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/11/2009 Time 1/0 09:49a/09:49a
TICKET # 318030 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ADT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 33,400
TARE 30,840
NET 2,560
NET TONS 1.26
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/10/2009 Time 1/0 09:45a/09:45a
TICKET # 317749 VEHICLE # STD694
LICENSE # STD694 TRLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ADT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 31,700
TARE 30,840
NET 860
NET TONS .47
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHINGOKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/06/2009 Time I/O 09:300/09:300
TICKET # 317465 VEHICLE # 510604
LICENSE # 510604 TPLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 21,070
TARE 20,840
NET 230
NET TONS 49
COMMENT Not Entered

MAC

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/03/2009 Time I/O 11:000/11:000
TICKET # 317255 VEHICLE # 510674
LICENSE # 510674 TPLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 35,060
TARE 30,840
NET 4,220
NET TONS 2.11
COMMENT Not Entered

JAN

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3364

STATE OF HAWAII
REGISTERED INITIALS
CHURADKA
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/04/2009 Time I/O 09:170/09:170
TICKET # 316864 VEHICLE # 519492
LICENSE # 519492 TPLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 30,500
TARE 27,880
NET 2,620
NET TONS 1.31
COMMENT Not Entered

MAC

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/03/2009 Time I/O 09:430/09:430
TICKET # 316201 VEHICLE # 519492
LICENSE # 519492 TPLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 28,660
TARE 27,800
NET 860
NET TONS 1.50
COMMENT Not Entered

(REFUSE)

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 47039

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 09/02/2009 Time I/O 09:320/09:320
TICKET # 315916 VEHICLE # 519492
LICENSE # 519492 TPLR # Not Entered
HAULER STATE-DOT HARBORS DIV/COM
ACCOUNT # 05231
ACCT. NAME STATE-DOT HARBORS DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 29,070
TARE 27,850
NET 1,220
NET TONS 1.32
COMMENT Not Entered

CK

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and identity of the quantity and commodity shown, is suitable for all deliveries when sealed by measuremaster.

No. 3725

STATE OF HAWAII
REGISTERED INITIALS
JBAILEY
MEASUREMASTER

John L. T. # 9492

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 06/31/2009 Time 170 18:10:10:183
TICKET # 315348 VEHICLE # 519492
LICENSE # 519492 TALK # Not Entered
HAULER STATE-DOT HAWAII DIV/COM
ACCOUNT # 65231
ADULT NAME STATE-DOT HAWAII DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 34,060
TARE 27,880
NET 6,180
NET TONS 3.174
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measurmaster.

No. 3725
STATE OF HAWAII
REGISTERED INITIALS
J. J. JOHNSON
MEASURMASTER

COVANTA Energy
Honolulu Resource Recovery
91-174 HANUA STREET
KAPOLEI, HAWAII 96707

Date 07/01/2009 Time 170 18:10:10:183
TICKET # 315348 VEHICLE # 519492
LICENSE # 519492 TALK # Not Entered
HAULER STATE-DOT HAWAII DIV/COM
ACCOUNT # 65231
ADULT NAME STATE-DOT HAWAII DIV/COM
WASTE STANDARD COMMERCIAL
DESTINATION # Not Entered

YARD Not Entered
ROUTE Not Entered
GROSS 34,060
TARE 27,880
NET 6,180
NET TONS 3.174
COMMENT Not Entered

STATE OF HAWAII
CERTIFICATE OF MEASURES
Honolulu Resource Recovery
DEPARTMENT OF AGRICULTURE

This certifies to the accuracy and
identity of the quantity and commodity
shown, is suitable for all deliveries
when sealed by measurmaster.

No. 3764
STATE OF HAWAII
REGISTERED INITIALS
J. J. JOHNSON
MEASURMASTER

INCOMING TICKET

Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date 11/05/09 Pounds: Gross 16120 Tare 15160 Net 960
Ticket# 19743 Tons: Gross 8.0600 Tare 7.5800 Net .4800
Time In 9:28AM CLT
Time Out 9:34AM CLT Material Type Rate Qty * Amount
MIXED GREEN 41.0000 .5000 20.50
Status PRINTED
Badge# 8490
License 8490
Origin SAND ISLAND
Payment CHARGE TO CUST
Tax .97
TOTAL CHARGE 21.47

Notes:

Signature

INCOMING TICKET

Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date 09/18/09 Pounds: Gross 16040 Tare 14940 Net 1100
Ticket# 16353 Tons: Gross 8.0200 Tare 7.4700 Net .5500
Time In 6:59AM CLT
Time Out 7:10AM CLT Material Type Rate Qty Amount
MIXED GREEN 41.0000 .5500 22.55
Status PRINTED
Badge# 8490
License 8490
Origin HONOLULU
Payment CHARGE TO CUST
Tax 1.06
TOTAL CHARGE 23.61

Notes:
YOUNG BROTHERS

Signature

INCOMING TICKET

Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date 06/25/09 Pounds: Gross 34720 Tare 30900 Net 3820
Ticket# 10431 Tons: Gross 17.3600 Tare 15.4500 Net 1.9100
Time In 7:33AM AVO
Time Out 7:50AM AVO Material Type Rate Qty Amount
MIXED GREEN 41.0000 1.9100 78.31
Status PRINTED
Badge# 4974
License 4974
Origin NIMITZ HWY.
Payment CHARGE TO CUST
Tax 3.69
TOTAL CHARGE 82.00

Notes:
PIER 18

Signature

INCOMING TICKET

Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date 05/07/09 Pounds: Gross 15800 Tare 14820 Net 980
Ticket# 6582 Tons: Gross 7.9000 Tare 7.4100 Net .4900
Time In 10:04AM AVO
Time Out 10:21AM AVO
Material Type Rate Qty * Amount
MIXED GREEN 41.0000 .5000 20.50
Status PRINTED
Badge# 8490
License 8490
Origin HONOLULU

Payment CHARGE TO CUST

Tax .97
TOTAL CHARGE 21.47

Notes:
HON HARBOR PIER 36

Signature 

INCOMING TICKET

Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date 05/06/09 Pounds: Gross 16680 Tare 15420 Net 1260
Ticket# 6481 Tons: Gross 8.3400 Tare 7.7100 Net .6300
Time In 11:22AM AVO
Time Out 11:48AM AVO
Material Type Rate Qty Amount
MIXED GREEN 41.0000 .6300 25.83
Status PRINTED
Badge# 8490
License 8490
Origin HONOLULU

Payment CHARGE TO CUST

Tax 1.22
TOTAL CHARGE 27.05

Notes:

Signature 

INCOMING TICKET

Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date 04/01/09 Pounds: Gross 33400 Tare 31100 Net 2300
Ticket# 3607 Tons: Gross 16.7000 Tare 15.5500 Net 1.1500
Time In 10:28AM EJS
Time Out 10:53AM EJS
Material Type Rate Qty Amount
MIXED GREEN 41.0000 1.1500 47.15
Status PRINTED
Badge# 9272
License 9272
Origin HONOLULU

Payment CHARGE TO CUST

Tax 2.22
TOTAL CHARGE 49.37

Notes:

Signature 

INCOMING TICKET

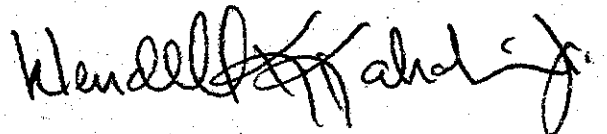
Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date	03/31/09	Pounds: Gross	15840	Tare	15040	Net	800
Ticket#	3498	Tons: Gross	7.9200	Tare	7.5200	Net	.4000
Time In	9:26AM EJS						
Time Out	9:54AM EJS	Material Type		Rate		Qty	Amount
		MIXED GREEN		41.0000		.4000	16.40
Status	PRINTED						
Badge#	8490						
License	8490						
Origin	HONOLULU						
Payment	CHARGE TO CUST			Tax		.77	
				TOTAL CHARGE		17.17	

Notes:

Signature



INCOMING TICKET

Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

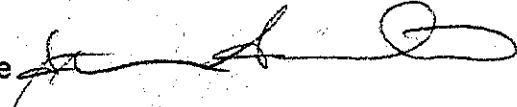
HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date	03/03/09	Pounds: Gross	17680	Tare	14960	Net	2720
Ticket#	1417	Tons: Gross	8.8400	Tare	7.4800	Net	1.3600
Time In	10:52AM EJS						
Time Out	11:07AM EJS	Material Type		Rate		Qty	Amount
		MIXED GREEN		41.0000		1.3600	55.76
Status	PRINTED						
Badge#	8490						
License	8490						
Origin	CAMPBELL INDUST.						
Payment	CHARGE TO CUST			Tax		2.63	
				TOTAL CHARGE		58.39	

Notes:

Signature

SAM KALAELOA
GREEN WASTE



INCOMING TICKET

Acct# 101861
Name STATE-HARBORS DIVISION
Address PIER 11 GALLERY D.O.T.
HONOLULU, HI 96813

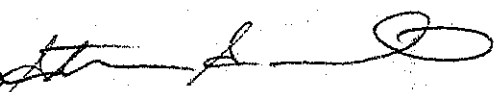
HAWAIIAN EARTH PRODUCTS
91-400 MALAKOLE ROAD
KAPOLEI, HI 96707
PHONE 682-5895 FAX 682-0762

Date	03/03/09	Pounds: Gross	17980	Tare	14920	Net	3060
Ticket#	1402	Tons: Gross	8.9900	Tare	7.4600	Net	1.5300
Time In	9:05AM EJS						
Time Out	9:21AM EJS	Material Type		Rate		Qty	Amount
		MIXED GREEN		41.0000		1.5300	62.73
Status	PRINTED						
Badge#	8490						
License	8490						
Origin	CAMPBELL INDUST.						
Payment	CHARGE TO CUST			Tax		2.96	
				TOTAL CHARGE		65.69	

Notes:

Signature

SAM KALAELOA
GREEN WASTE



INCOMING TICKET

Acct# 101861
 Name STATE-HARBORS DIVISION
 Address PIER 11 GALLERY D.O.T.
 HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
 91-400 MALAKOLE ROAD
 KAPOLEI, HI 96707
 PHONE 682-5895 FAX 682-0762

Date 02/06/09
 Ticket# 282990
 Time In 7:11AM EJS
 Time Out 7:37AM EJS

Pounds: Gross 35200 Tare 30600 Net 4600
 Tons: Gross 17.6000 Tare 15.3000 Net 2.3000

Material Type Rate Qty Amount
 MIXED GREEN 41.0000 2.3000 94.30

Status PRINTED
 Badge# 9272
 License 9272
 Origin ALA MOANA

Payment CHARGE TO CUST

Tax 4.44
 TOTAL CHARGE 98.74

Notes:

Trimming Pier 38 $\frac{1}{2}$ KEXIALO PARK

Signature

John Light

INCOMING TICKET

Acct# 101861
 Name STATE-HARBORS DIVISION
 Address PIER 11 GALLERY D.O.T.
 HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
 91-400 MALAKOLE ROAD
 KAPOLEI, HI 96707
 PHONE 682-5895 FAX 682-0762

Date 01/14/09
 Ticket# 281396
 Time In 7:21AM EJS
 Time Out 7:47AM EJS

Pounds: Gross 33460 Tare 30020 Net 3440
 Tons: Gross 16.7300 Tare 15.0100 Net 1.7200

Material Type Rate Qty Amount
 MIXED GREEN 41.0000 1.7200 70.52

Status PRINTED
 Badge# 9272
 License 9272
 Origin HONOLULU

Payment CHARGE TO CUST

Tax 3.32
 TOTAL CHARGE 73.84

Notes:
 PEIR 37

(Trimming)

Signature

John Light

INCOMING TICKET

Acct# 101861
 Name STATE-HARBORS DIVISION
 Address PIER 11 GALLERY D.O.T.
 HONOLULU, HI 96813

HAWAIIAN EARTH PRODUCTS
 91-400 MALAKOLE ROAD
 KAPOLEI, HI 96707
 PHONE 682-5895 FAX 682-0762

Date 01/02/09
 Ticket# 280706
 Time In 10:34AM DMS
 Time Out 10:50AM DMS

Pounds: Gross 16640 Tare 15400 Net 1240
 Tons: Gross 8.3200 Tare 7.7000 Net .6200

Material Type Rate Qty Amount
 MIXED GREEN 41.0000 .6200 25.42

Status PRINTED
 Badge# 8490
 License 8490
 Origin HONOLULU

Payment CHARGE TO CUST

Tax 1.20
 TOTAL CHARGE 26.62

Notes:
 PIER 2

SAM
 PIER 18
 CHANNEE ST.

Signature

Sam



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

TICKET DATE: 12/18/09

TRIP: 474 SCALE: 1 (TRUCK/DOCK SCALE)
Vendor Number 3199
Vendor Name STATE OF HAWAII
HARBORS DIVISION
48 SAND ISLAND ACCESS RD.
HONOLULU, HI 96819

CUSTOMER COPY

LIC# Vehicle-4974
Driver -X
Trailer-

Deputy Weighmaster _____
Cheyenne Nahulu - 3540
Date and Time - In: 12/18/09 07:39 Out: 12/18/09 07:48

This is to certify that the following merchandise was weighed, measured, or counted by a licensed Measure Master by the State of Hawaii.

Commodity	Description - Ferrous	Net Weight
192-00	Tin	4780.0 LB
Comment: 4974 <i>John Lita (OAHU LUMBER BUCK)</i>		
Total Wt- Gross: 35940.0 lbs Tare: 31160.0 lbs Net: 4780.0 lbs		



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

MEMO WEIGHT CERTIFICATE

Weigh in : Date 11-18-09 Time 08:33
Weigh out: Date 11-18-09 Time 08:40

WEIGHED ON INBOUND SCALE

WEIGHTS

GROSS 16880 lbs
TARE 15520 lbs
NET 1360 lbs

SAM JOHN
SUGAR R. OAHU LUMBER

STATE
8490
NETS

HOUSE COPY

4621



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

MEMO WEIGHT CERTIFICATE

Weigh in : Date 10-20-09 Time 08:00
Weigh out: Date 10-20-09 Time 08:07

WEIGHED ON INBOUND SCALE

WEIGHTS

GROSS 16260 lbs
TARE 15120 lbs
NET 1140 lbs

SAM
SUGAR R. OAHU LUMBER

STATE OF HAWAI'I-HARBORS DIVISION
FISHING LINE
8940/8490?

DRIVERS COPY

4324



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

TICKET DATE: 09/28/09

TRIP: 399 SCALE: 1 (TRUCK/DOCK SCALE)
Vendor Number 3199
Vendor Name STATE OF HAWAII
HARBORS DIVISION
48 SAND ISLAND ACCESS RD.
HONOLULU, HI 96819

CUSTOMER COPY

LIC# Vehicle-4974
Driver -X
Trailer-

Deputy Weighmaster _____
Cheyenne Nahulu - 3540
Date and Time - In: 09/28/09 09:50 Out: 09/28/09 10:00

This is to certify that the following merchandise was weighed, measured, or counted by a licensed Measure Master by the State of Hawaii.

Commodity ----- 192-00	Description - Ferrous ----- Tin <i>SAM OAHU LUMBER METALS</i> Comment: 4974	Net Weight ----- 7680.0 LB
Total Wt- Gross: 38980.0 lbs Tare: 31300.0 lbs Net: 7680.0 lbs		



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

MEMO WEIGHT CERTIFICATE

Weigh in : Date 09-24-09 Time 08:09
Weigh out: Date 09-24-09 Time 08:16

WEIGHED ON INBOUND SCALE

WEIGHTS

GROSS 16680 lbs
TARE 15500 lbs
NET 1180 lbs

*SAM
SUGIE
OAHU LUMBER*

STATE OF HAWAI'I
8940
FISHING LINES...

HOUSE COPY

4035



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

MEMO WEIGHT CERTIFICATE

Weigh in : Date 09-03-09 Time 08:14
Weigh out: Date 09-03-09 Time 08:22

WEIGHED ON INBOUND SCALE

WEIGHTS

GROSS 16460 lbs
TARE 15160 lbs
NET 1300 lbs

*SAM
SUGIE*

NETS
STATE OF HAWAI'I-8490
HARBORS DIVISION

HOUSE COPY

3866



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

TICKET DATE: 07/06/09

TRIP: 733 SCALE: 1 (TRUCK/DOCK SCALE)
Vendor Number 3199
Vendor Name STATE OF HAWAII
HARBORS DIVISION
48 SAND ISLAND ACCESS RD.
HONOLULU, HI 96819

CUSTOMER COPY

LIC# Vehicle-4974
Driver -X
Trailer-

Deputy Weighmaster _____
Date and Time - In: 07/06/09 10:06 Out: 07/06/09 10:14

This is to certify that the following merchandise was weighed, measured, or counted by a licensed Measure Master by the State of Hawaii.

Commodity ----- 192-00	Description - Ferrous ----- Tin	Net Weight ----- 9080.0 LB
	Comment: 4974	<i>John Lipton</i> OAHU LUMBER / METAL #4974
Total Wt- Gross: 40240.0 lbs Tare: 31160.0 lbs Net: 9080.0 lbs		



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

MEMO WEIGHT CERTIFICATE

Weigh in : Date 07-06-09 Time 10:00
Weigh out: Date 07-06-09 Time 10:10

WEIGHED ON INBOUND SCALE

WEIGHTS
GROSS 15780 lbs
TARE 15180 lbs
NET 600 lbs

STATE-8490
FISHING NET

SAM
D.C.
SUGIE

HOUSE COPY

3298



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

MEMO WEIGHT CERTIFICATE

Weigh in : Date 06-02-09 Time 10:16
Weigh out: Date 06-02-09 Time 10:21

WEIGHED ON INBOUND SCALE

WEIGHTS
GROSS 15960 lbs
TARE 15200 lbs
NET 760 lbs

STATE OF HAWAI'I
8490
NETS

Michael Miller

HOUSE COPY

3042



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

MEMO WEIGHT CERTIFICATE

Weigh in : Date 05-14-09 Time 07:37
Weigh out: Date 05-14-09 Time 07:50

WEIGHED ON INBOUND SCALE

WEIGHTS
GROSS 32380 lbs
TARE 31280 lbs
NET 1100 lbs

SAM
SUGIE
OAHU LUMBER

STATE OF HAWAI'I-HARBORS DIVISION
9272
FISHING LINE

HOUSE COPY

2947



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

TICKET DATE: 05/07/09

TRIP: 999 SCALE: 1 (TRUCK/DOCK SCALE)
Vendor Number 3199
Vendor Name STATE OF HAWAII
HARBORS DIVISION
48 SAND ISLAND ACCESS RD.
HONOLULU, HI 96819

CUSTOMER COPY

LIC# Vehicle-9272
Driver -X
Trailer-

Deputy Weighmaster Cheyenne Nahulu - 3540
Date and Time - In: 05/07/09 11:23 Out: 05/07/09 11:32

This is to certify that the following merchandise was weighed, measured, or counted by a licensed Measure Master by the State of Hawaii.

Commodity	Description - Ferrous	Net Weight
192-00	Tin	8520.0 LB
<i>John Light (BUCK METAL)</i>		
Comment: 9272		
Total Wt- Gross: 39480.0 lbs Tare: 30960.0 lbs Net: 8520.0 lbs		



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**
Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

TICKET DATE: 03/25/09

TRIP: 992 SCALE: 1 (TRUCK/DOCK SCALE)
Vendor Number 3199
Vendor Name STATE OF HAWAII
HARBORS DIVISION
48 SAND ISLAND ACCESS RD.
HONOLULU, HI 96819

CUSTOMER COPY

LIC# Vehicle-9272
Driver -X
Trailer-

Deputy Weighmaster Cheyenne Nahulu - 3540
Date and Time - In: 03/25/09 07:39 Out: 03/25/09 07:47

This is to certify that the following merchandise was weighed, measured, or counted by a licensed Measure Master by the State of Hawaii.

Commodity	Description - Ferrous	Net Weight
192-00	Tin	7480.0 LB
<i>John Light</i>		
Comment: 9272		
Total Wt- Gross: 37860.0 lbs Tare: 30380.0 lbs Net: 7480.0 lbs		



Weighmaster: **SCHNITZER STEEL HAWAII CORP.**

Weighed at : 91-056 HANUA STREET
KAPOLEI, HI 96707
808-682-5810

TICKET DATE: 01/09/09

TRIP: 374 SCALE: 1 (TRUCK/DOCK SCALE)
Vendor Number 3199
Vendor Name STATE OF HAWAII
HARBORS DIVISION
48 SAND ISLAND ACCESS RD.
HONOLULU, HI 96819

CUSTOMER COPY

LIC# Vehicle-9272
Driver -X
Trailer-

Deputy Weighmaster

Cheyenne Nahulu - 3540

Date and Time - In: 01/09/09 08:50 Out: 01/09/09 09:03

This is to certify that the following merchandise was weighed, measured, or counted by a licensed Measure Master by the State of Hawaii.

Commodity ----- 192-00	Description - Ferrous ----- Tin Comment: 9272	Net Weight ----- 6500.0 LB <i>John Light</i>
Total Wt- Gross: 36980.0 lbs Tare: 30480.0 lbs Net: 6500.0 lbs		


AIR LIQUIDE
EMERGENCY CONTACT
CHEMTREC 1-800-424-9300

91-163 HANNA STREET
 KAPOLEI HI 94707-1796
 PHONE: 808-682-2100
 FAX: 808-682-2105

13-APR-2004

SHIPPING ORDER NUMBER 10185-12823329

REQUIRED: 15-APR-2004
 Not During 12:00 and 13:00 Hrs

Customer Pickup

BILL TO (BUYER):

STATE OF HAWAII
 TRANSPORTATION HARBORS DIV-MAINTENANCE
 48 SAND ISLAND ROAD
 HONOLULU HI 96819

SHIP TO: 832-3843
 DEPARTMENT OF TRANSPORTATION
 HARBORS DIVISION - MAINTENANCE
 48 SAND ISLAND ROAD
 HONOLULU HI 96819
 ALAN UYEMURA

DELIVERED BY DATE

RECEIVED BY

DATE

 ACCOUNT
 NUMBER

ORDERED BY

ENTERED BY

TERMS

PO#

206879 - 0001

RILLY DAVIS

Reis, Trent H

NET 30

REL#

50320691

ITEM #

ITEM DESCRIPTION

QTY

QUANTITY

ORD

SHIP

RET

B/O

 CUSTOMER'S
 PRICE \$/UOM

VOLUME

TAX

 EXTENDED
 AMOUNT

DELIVERIES FROM 7 - 12 NOON AND 1 - 2:30 ONLY
 NO DELIVERIES AFTER 2:30 PM

The purchase order number on this document has been listed for billing and record keeping purposes only. The terms and conditions appearing on the reverse side of this document shall apply.

Ship From: 306 KALIHI STREET
 HONOLULU HI 96819

Phone: 808-845-9081

Fax:

EX112

SERVICES / CYL SERVICES-DISPOSAL

15.00

15.00

15.00

EA

15.00

EA

N

225.00

\$15 propane tank disposal charge

To better serve our customers, we request that all orders be called in before 2:00 on the day before your scheduled delivery day.

Tax Information

Tax Code	Description	Rate	Taxable Amount	Tax Amount
N	13-APR-04	0	225.00	0.00

IMPORTANT NOTICE

A MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PROVIDED TO BUYER TO GET MORE FREE COPIES, CALL 800-221-1366
 THE REVERSE SIDE OF THIS DOCUMENT IS PART HEREOF UNLESS OTHERWISE INDICATED THEREON.

OWNERSHIP		UNIT OF MEASURE			
AL	AIR LIQUIDE	SCF	STANDARD CUBIC FEET	CCF	HUNDRED CUBIC FEET
CO	CUSTOMER	CYL	CYLINDER	LB	POUNDS
NR	NON-RETURNABLE	LTR	LITER	EA	EACH
EX	EVEN-EXCHANGE	PK	PACK	GAL	GALLON

SUB TOTAL	\$ 225.00
TOTAL TAXABLE AMOUNT	
TOTAL TAX AMOUNT	\$ 0.00
TOTAL INVOICE AMOUNT	\$ 225.00

APPENDIX O

CURRENT AND FUTURE TASK ROUGH ORDER OF MAGNITUDE

Current and Future Task Rough Order of Magnitude

PROJECT INFORMATION

PROJECT:	HDOT- Harbors	CONTRACT:	#53692
TITLE:	Stormwater Management		
LOCATION:	Oahu, Hawaii		

BACKGROUND

Weston Solutions, Inc. (WESTON) is providing this Rough Order of Magnitude (ROM) pursuant to request by Hawaii Department of Transportation – Harbors Division to provide program funding for implementation of requirements set forth in Administrative Order (AO) CWA-309(a)-09-023. WESTON provided a cost proposal for Task #5 under Contract #53692 to execute Phase I of the AO requirements. A summary of Task #5 is presented below. Tasks that require implementation following completion on Phase I are also identified below. These tasks and the ROM provided are subject to change pending completion of Phase I requirements.

CURRENT TASK

1.

Task #5 - \$155,730

This task includes the following:

1. Update the SWMPs for Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer Systems (MS4s)
2. Provide the 2009 Annual Compliance Report (ACR) for Honolulu Harbor and Kalaeloa Barbers Point Harbor
3. Conduct baseline tenant inspections for storm water compliance at high priority locations
4. Implement storm water training programs for Harbors Division staff

This task is currently in progress and at various stages of completion for each item.

FUTURE TASKS

1.

Outfall Reconnaissance Inventory (ORI) - \$50,000 to \$75,000

This task includes inspection, documentation, and reporting for all outfalls at Honolulu and Kalaeloa Harbors. Inspections will include GPS location verification, structural assessment, and water quality assessments. This task is meant to be an annual requirement under the MS4 permit.

This task assumes HDOT-Harbors will supply a vessel and pilot to complete the inspections. HDOT-Harbors will also coordinate all necessary permits or access agreements with the Harbor Master and tenants.

<p>2.</p> <p>Illicit Discharge Detection and Elimination (IDDE) Inspections - \$75,000 to \$150,000</p> <p>This task includes inspection of all non-storm water or dry weather flows identified during the ORI to determine the nature, extent, and origin of the discharge. The IDDE inspection will define if the flow is an Illicit or allowable discharge and dictate further actions. The IDDE inspection will require chasing flows upstream as an accurate trunk analysis (utilizing accurate infrastructure maps to trace potential illicit sources) is not possible at this time. WESTON would utilize dye and smoke testing or pipeline video techniques to locate discharge sources. Samples will also be collected to determine the nature of the discharge. All inspected/impacted areas will be documented and locations recorded by GPS. The IDDE inspection report will detail source locations and illicit vs allowable determinations. Recommendations for connection eliminations will also be included in the IDDE report.</p> <p>This task will require a HDOT-Harbors vessel and pilot as well as complete access to shore side storm water infrastructure. Local subcontractors will be secured for pipeline video requirements. Elimination of the illicit discharge (i.e. cross connection removal) is not included in this task. Enforcement requirements for tenant actions will be HDOT-Harbors responsibility.</p>
<p>3.</p> <p>2010 Tenant Inspections - \$50,000 to \$75,000</p> <p>This task includes inspection of all Honolulu and Kalaeloa tenant facilities for storm water compliance. Initial and Follow-up inspections and reporting will be conducted. HDOT-Harbors staff will accompany WESTON personnel in two teams. Enforcement actions will be the responsibility of HDOT-Harbors staff.</p> <p>Access to tenant locations will be coordinated by HDOT-Harbors staff. Inspections will be scheduled one month following tenant storm water awareness training and submission of educational materials.</p>
<p>4.</p> <p>2010 Annual Compliance Report (ACR) - \$25,000 to \$50,000</p> <p>Annual compliance reports will include an evaluation of source reduction based on implementation of the revised Storm Water Management Plans. WESTON will provide budget and funding forecasts for the following year. The ACR will discuss and document all reported spills, discharges, and NOVs. They will also include a comprehensive list of tenants and construction activities.</p> <p>HDOT-Harbors staff will provide comprehensive documentation on all storm water related incidents and construction inspections performed through out the permit year.</p>
<p>5.</p> <p>Harbor and Tenant Storm Water Awareness Training - \$15,000 to \$30,000</p> <p>WESTON will provide training presentations, instructors, and certificates for storm water awareness training of tenant and HDOT-Harbors personnel. Training sessions will be 2 hours in duration and include a proficiency test. Multiple sessions will be provided to help with tenant schedules.</p> <p>HDOT-Harbors will provide notification, scheduling, and the training facility.</p>
<p>6</p> <p>Asset Management System Modifications - \$100,000 - \$300,000</p> <p>This task includes development of HDOT-Harbors module onto the existing HDOT-Highways Asset Management System. Further understanding of the existing system and HDOT-Harbors requirements are needed prior to further scope definition. It is anticipated that tenant inspections, construction inspection, ORI, spill reporting, and training information will all be required for the updated system.</p>

Kalaeloa Harbor Stockpile Management - \$850,000 - \$1,300,000

This task includes implementation of the initial phases of the Dredge Spoil Stockpile Management Plan including stockpile investigation, existing BMP maintenance, and additional BMP installation. The cost assumes the initial estimates of BMP scope and placement. Additional BMPs types and quantities may be required upon further investigation of the stockpiles. The costs are inclusive of management, planning, subcontracting and reporting. Marketing and cost recovery through stockpile reuse are not incorporated in this estimate. Management and execution of any stockpile reuse alternatives have not been incorporated into this estimate.

Total Tasks Inclusive of Current Tasks and Kalaeloa Stockpile Management - \$1,320,730 to \$2,135,730

Annual Compliance Report 2011

Kalaeloa Barbers Point Harbor, Hawaii



Prepared for

**Hawaii Department of Transportation
Harbors Division**

Prepared by

**Weston Solutions, Inc.
841 Bishop Street, Suite 2301
Honolulu, HI 96813**

January 2012

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature

Date

Authorized Representative of Harbors Division

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LIST OF ACRONYMS AND ABBREVIATIONS

ACR	Annual Compliance Report
BMP	Best Management Practice
CFR	Code of Federal Regulations
CSRCP	Construction Site Runoff Control Program
CWB	Clean Water Branch
EMS	Environmental Management System
HAR	Hawaii Administrative Rules
HAR-EE	Harbors Division Environmental Engineering Section
HAR-OE	Harbors Division Oahu District Enforcement
HDOH	Hawaii Department of Health
HDOT	Hawaii Department of Transportation
Honolulu Tower	Honolulu Harbor Marine Traffic Control Tower
HRS	Hawaii Revised Statutes
IDDE	Illicit Discharge Detection and Elimination
IEP	Inspection and Enforcement Plan
KBPH	Kalaeloa Barbers Point Harbor
LIDS	Low Impact Development Standards
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NA	Not Applicable
NGPC	Notice of General Permit Coverage
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NSWD	Non-Stormwater Discharge
ORI	Outfall Reconnaissance Inventory
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TBD	To Be Determined
TMK	Tax Map Key

LIST OF ACRONYMS AND ABBREVIATIONS, CONTINUED

TRP	Tenant Revocable Permit
TSI	Tenant Self-Inspection
USEPA	U.S. Environmental Protection Agency
WESTON	Weston Solutions, Inc.

1.0 INTRODUCTION



The Hawaii Department of Transportation (HDOT), Harbors Division has developed this Annual Compliance Report (ACR) for the Hawaii Department of Health (HDOH) in accordance with its Notice of General Permit Coverage (NGPC), permit number HI03KB488. The ACR details activities conducted by Harbors Division to comply with the requirements of its permit and to keep a record of progress toward yearly goals.

The ACR follows the format and organization of the Storm Water Management Plan (SWMP) to facilitate comparison between planned activities and activities that were accomplished. The ACR describes efforts made by Harbors Division to implement the six minimum control measures established by the United States Environmental Protection Agency (USEPA) and as required by the Hawaii Administrative Rules (HAR) 11-55 Appendix K and the NGPC. This report identifies activities completed during calendar year 2011 and presents areas that will be addressed in calendar year 2012. The following is included in this ACR:

- ✓ Status of Compliance;
- ✓ Assessment of the SWMP minimum control measures:
 - Public outreach and education,
 - Public involvement/participation,
 - Illicit discharge detection and elimination,
 - Construction site runoff control,
 - Post-construction stormwater management in new development and redevelopment;
 - Pollution prevention/good housekeeping;
- ✓ Modifications to the SWMP;
- ✓ Summary of Planned Activities;
- ✓ Modifications to the Small Municipal Separate Storm Sewer System (MS4); and



1.1 APPLICABLE REGULATIONS

It is the intention of HDOT Harbors that this ACR demonstrates compliance with the following regulations listed in the NGPC:

- ✓ HAR, Chapter 11-55, Appendix K, National Pollutant Discharge Elimination System (NPDES) General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems;
- ✓ HAR, Chapter 11-55, Appendix A, HDOH, Standard General Permit Conditions; and

- ✓ HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12, and any other applicable Sections of HAR, Chapter 11-55.

1.2 STATUS OF COMPLIANCE

HAR Chapter 11-55 Appendix K authorizes discharges of storm water and certain non-stormwater discharges from small MS4s. Prior NGPC for the storm drain system was granted by HDOH on May 19, 2003. In a letter dated October 19, 2007 HDOH provided for an extension of the NGPC until a notice of renewed coverage under the applicable general permit is issued or until HDOH notification is received. This extension is in accordance with HAR, Chapter 11-55-34.09(d). The NGPC and extension can be found in Appendix A of this document.

1.3 SWMP PERFORMANCE EVALUATION

A process for conducting an annual performance and effectiveness evaluation of the SWMP has been developed and included in this ACR. This evaluation addresses specific direct and indirect measurements in order to track the long-term progress of the SWMP towards achieving improvements in water quality.

The SWMP contains Best Management Practice (BMP) tables that outline activities that are either occurring or will be implemented in the future to ensure each of the minimum control measures are being implemented. Each BMP task is assigned a specific evaluation indicator, milestone, time frame/due date, and responsible party. The ACR is structured such that each section and BMP table corresponds with those in the SWMP. This allows the ACR to be used as an evaluation tool, addressing conformance with established performance standards, quantitative monitoring, estimates of pollutant load reductions or increases, and detailed accounting of SWMP accomplishments.

As trends are detected and the usefulness of specific BMPs or their evaluation indicators become apparent, the SWMP will be modified to ensure the program is protective of the receiving waters.

Harbors has committed resources to executing programs described in the 2009 SWMP, and will continue each year to implement new initiatives based on available budget and resources. All ongoing and new activities will be reported in the ACRs.

2.0 PUBLIC EDUCATION AND OUTREACH



Permit Requirements

City and County of Honolulu Stormwater Stenciling, 2009

HAR, Chapter 11-55, Appendix K, Part 6(a)(1). Develop and implement a public education program to distribute educational materials to users of the small municipal separate storm sewer community or conduct equivalent outreach activities emphasizing each of the following:

- (B) Hazards associated with illicit discharges, and*
- (A) Impacts of stormwater discharges on water bodies,*
- (C) Measures the users of the permittee's small municipal separate storm sewer system can take to reduce pollutants in stormwater runoff, including, but not limited to, minimizing fertilizer application and practicing proper storage and disposal of chemicals and wastes.*

2.1 TENANT EDUCATION AND OUTREACH

Harbors Division requires tenants to reduce to the maximum extent practicable (MEP) pollution in storm water discharges and effectively prohibit unauthorized non-storm water discharges into the MS4 through its tenant lease agreements and Tenant Revocable Permit (TRP), which are attached as Appendix B.

An inventory of tenants at Kalaeloa Barbers Point Harbor (KBPH) is kept on file at Harbors Oahu District Environmental Section and has been updated this year to include all current tenants. The tenant inventory identifies primary and alternate environmental contacts for each tenant. Personnel identified in the inventory are deemed responsible for implementation of storm water protection measures and BMP requirements at their facility. Please see BMP 2-1. The tenant inventory can be found in Appendix C. There were no changes to the tenant inventory in 2011.

Harbors Division sends out an annual mailing to Small MS4 users in order to educate them on storm water quality issues, and collect data on tenant operations for updating the database. The 2011 mailing was sent on 28 September 2011 and included:

- A cover letter from the HDOT Harbors Administrator
 - Defined the regulatory background
 - Invited all tenants to attend Tenant Storm Water Pollution Prevention Awareness Training

- The Tenant Self-Inspection (TSI) form
 - Returned forms utilized for updating and tracking tenant operations and contact information
- New BMP flyers
 - “Building and Remodeling” Flier. The flier describes sedimentation as a major concern at construction sites and requires submittal of building or remodeling plans to the HDOT Harbors Division for formal approval.
 - “Outdoor Material Storage” Flier. The flier describes responsible practices for storing chemicals and bulk material.
 - “Vehicle and Equipment Washing” Flier. The flier prohibits washing without approval from HDOT Harbors Division and emphasizes setting up berms to capture wash water for disposal.

A copy of this mailing and its attachments can be found in Appendix D. The TSI responses are compiled and used to update the Tenant Database (Appendix C). Future tenant mailings will be updated with new BMP flyers based on findings from the annual tenant inspections.

This year, the percentage of tenants (Honolulu and KBP Harbors combined) that were responsive to the TSI mailing was thirty-six percent. There has been a noticeable decrease in responsiveness since Harbors Division began tracking this metric in 2009. The decrease in responsiveness is most likely due to redundancy with tenant facility inspections. There appears to be little added benefit to requiring the tenants to complete this form when all of the information can be gathered during facility inspections. Harbors Division proposes modifying the mailing in 2012 by replacing the TSI with a contact information sheet, the purpose of which will be to verify that tenant contact information is up-to-date in order to ensure effective and expedient inspection scheduling and communication. Please see BMP 2-1.

On October 19 and 20, 2011 Harbors Division held annual tenant educational workshops entitled, “2011 Tenant Storm Water Pollution Prevention Awareness Training.” The agenda included background on applicable regulations, followed by Harbors General Permit requirements for Small MS4s, information on pollution prevention and good housekeeping, notification of upcoming facility inspections, the structure of the Inspection and Enforcement Program (IEP), emergency contact information, and a question and answer session. A copy of the presentation and tenant attendance record are provided as Appendix E.

As a part of the tenant outreach program, the “Tenant Environmental Manager of the Year” award program has been created and implemented this year in order to provide incentive for tenant environmental managers to create positive change within their organizations. Not only does it create positive reinforcement for the organization and individual receiving the award, it demonstrates to the remaining tenants that positive change is achievable and provides concrete examples of solutions that are realistic and affordable. The awardee is chosen from a pool of tenants from Honolulu and KBP Harbors. The award is presented with a letter that is signed by the Governor of the State of Hawaii. This year, Mr. Nathan Kapule of Young Brothers, Inc. received the award. A copy of the award certificate is included in Appendix F.

Harbors Division has maintained a hotline for storm water information and discharge reporting since October 22, 2009. Please see BMP 2-1. The hotline is reachable by dialing (808)-587-1962. The hotline number is a direct line to the Harbors Division Environmental Engineer. Harbors Environmental Section maintains records of calls, follow-up inspection dates and findings, enforcement actions taken, and resolutions in the Harbors Environmental Engineering (HAR-EE) Stormwater Hotline Occurrence Tracking (SHOT) Form (Appendix G). Although no calls were received from the public, calls from the Honolulu Marine Traffic Control Tower (Honolulu Tower) were received as required notification after environmental incidents. The Honolulu Tower logs calls related to KBP Harbor. Please see Appendix H for the Honolulu Tower Log.

BMP 2-1 Tenant Education and Outreach

Goals: 1) Generate tenant awareness of storm water pollution. 2) Engage tenant interest in preventing storm water pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update mailing items as outreach and education problem areas are identified and recorded	Percentage of problem areas in education/outreach addressed by updated materials	100% of identified problem areas updated	October 2011	Weston Solutions, Inc. (Weston)	Items were updated to include vehicle washing, outdoor material storage, and building and remodeling.
	Percentage of tenants' feedback about the updates that are positive	At least 50% of feedback positive	Not Applicable (NA)	Harbors Environmental Section	No feedback received.
Review TSI responses from tenants	Percentage of tenants responsive to the TSI Form	Greater than 90% of tenants	Ongoing	Harbors Environmental Section	36% of tenants responded to the TSI form (Honolulu and KBP Harbors). The TSI form will be replaced with a contact information sheet in 2012.
Mail educational materials and reporting contacts to tenants	Number of educational materials distributed	100% of tenants received educational materials and reporting contacts	Sent Sept 2011	Harbors Environmental Section	162 mailings were sent (Honolulu and KBP Harbors).

Goals: 1) Generate tenant awareness of storm water pollution. 2) Engage tenant interest in preventing storm water pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
	Responses on TSI Form show improvement in storm water awareness	Completeness of TSI forms increasing from previous year	Registered mail receipt varies	Harbors Environmental Section	TSI form completeness is adequate and has increased from previous year although less forms were returned.
Establish a reporting/complaint tracking system to log response & enforcement activity	Create a hotline system for reporting violations and answering questions	Create and maintain one hotline number	22 Sept 2009	Harbors Environmental Section	Hotline established
	Number of informational inquiries received via hotline	Number of inquiries increased from previous year	NA	Harbors Environmental Section	None received in 2011.
	Number of hours to respond to complaint from time call is received.	Respond to all reporting/complaints within 24 hrs to minimize water quality impacts or recurrent dumping	NA	Harbors Environmental Section	No calls were received in 2011.

2.2 GENERAL PUBLIC EDUCATION AND OUTREACH

Public education aims to create awareness and prompt behavioral changes. Equipped with information, the public will be less likely to contribute to water pollution as they will be able to make informed choices. Educating the public with this knowledge and contact information for appropriate authorities will increase the likelihood that a violation or accidental release will be reported. The responsibility for tenant and public education falls under the HDOT Harbors Division Environmental Engineering Section.

Public education activities includes posting signs that advise against dumping or discarding inappropriate materials where they may be carried into Harbor waters. Signs are posted at visible public locations, such as harbor entrances, comfort stations, meeting areas, and garbage collection stations. Please see BMP 2-2.

The Harbors storm water website provides information about water quality issues, emergency reporting numbers, and links to useful sections of the USEPA website. Please see BMP 2-2. The website can be accessed at <http://hawaii.gov/dot/harbors>.

Although no ad was placed in 2011, Harbors Division will continue to foster relationships with other State agencies and develop new programs for public education and outreach in 2012.

BMP 2-2 General Public Education and Outreach

Goals: 1) Generate tenant awareness of storm water pollution. 2) Engage tenant interest in preventing storm water pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Post or construct signage at visible public locations	Visible areas covered by "No Dumping" signs	Signs are hung at additional visible public locations	NA	Harbors Environmental Section	Tenants were instructed to post "no washing" signs where water spigots are located.
	Storm drains with "flows to ocean" stenciling	Number of drains stenciled	NA	Harbors Environmental Section	Collected contact information for tenant volunteers for stenciling activity. Activity to be held in 2012.

Goals: 1) Generate tenant awareness of storm water pollution. 2) Engage tenant interest in preventing storm water pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
	Track the amount of inappropriate materials dumped and correlate this data to the timing of public sign posting to gauge any change of public behaviors over time	The amount of polluting material generated by dumping or discarding has been reduced	NA	Harbors Environmental Section	No materials were tracked in 2011. Materials will be tracked during stenciling event.
Create/update runoff water quality presentations on Harbors Division website	Create/update presentation and post to website	Presentation is posted	Ongoing	Weston/Harbors Environmental Section	Presentation created, but not posted to website.
Measure dissemination and effectiveness of water quality presentation	Percentage increase in presentation viewing, measured by number of hits on presentation website	Increase viewing from previous year	TBD	Harbors Environmental Section; Harbors web master	Website not yet updated, however tenants were emailed the presentation directly upon request.
Set up and solicit a volunteer cleanup or storm drain stenciling activity	Participation in activities.	At least one of the listed activities	NA	Harbors Environmental Section	Volunteer activity will be conducted in 2012.
	Number of employee and public participants	An increase in participation from previous year	NA	Harbors Environmental Section	Tenant solicitation during training resulted in increased volunteer commitment
Post public awareness advertisement in local newspaper or magazine to educate the general public on storm water pollution control	Number of advertisements sponsored	One per year	NA	Harbors Environmental Section	No advertisement posted in 2011.

2.3 VESSEL OPERATORS EDUCATIONAL PROGRAM

Outreach to vessel operators docking at Harbors Division facilities ensures awareness of potential pollutant sources associated with vessel operation in the harbor, including vessel equipment wash water and polluted deck wash-down water, and vessel maintenance. A used oil educational flier was distributed to vessel operators and is available in the 2009 SWMP.

Marine Cargo Specialists monitor loading and unloading procedures for the major vessels in the Harbor. Their duties include tracking compliance with various aspects of the process including storm water pollution control compliance. Harbors is developing a tracking system for Marine Cargo Specialist monitoring records, which will include storm water observations. The monitoring records will be tracked following Marine Cargo Specialist training in 2012. Please see BMP 2-3.

BMP 2-3 Expand the Educational Program to Vessel Operators

Goal: Minimize discharge of pollutants to receiving waters within the harbors					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Marine Cargo Specialists will Monitor ship cargo loading and unloading to prevent discharges of pollutants	Frequency of monitoring activity at loading/unloading zones	Increasing frequency	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	To be implemented in 2012
	Number of Marine Cargo Specialist Attending Annual Storm water Training	Increasing attendance	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	Training Conducted in 2011.
	Number of actions taken as a result of loading and unloading monitoring	For informational purposes	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	No actions reported from monitoring activities.
Develop and maintain inventory of ships agents responsible for tracking vessel operators and provide educational materials	Percentage of ships agents in inventory	100% of ships agents identified	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Ships agents identified in tenant inspections and inventory will be developed in 2012
	Percentage of ships agents receiving educational materials	100% of ships agents received materials	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Educational materials distributed in training. Total number of agents TBD.

2.4 INSPECTION AND PROGRESSIVE ENFORCEMENT PROGRAM

A tenant and user inspection and enforcement program has been developed as part of Harbor's Environmental Management System (EMS). This program identifies, tracks, inspects and ensures compliance with the Harbor Division's tenant lease agreements and TRPs. As part of the inspection and progressive enforcement program, the inventory of businesses and industries currently operating at the Harbor has been updated (Appendix C). Inspection and Illicit Discharge Detection and Elimination (IDDE) findings are further discussed in Section 4.0.

Harbors completed inspection of all of its KBPH tenants in 2011. Inspection of and outreach to commercial and industrial tenants was conducted to ensure the following:

- ✓ Continually evaluate where outreach efforts should be focused;
- ✓ The facility operator has been made aware of storm water pollution prevention requirements and the consequences of non-compliance;
- ✓ The facility operator is in compliance with its tenant lease agreement or TRPs;
- ✓ Unauthorized non-storm water discharges do not occur at the facility; and
- ✓ Illicit connections are not present at the facility.

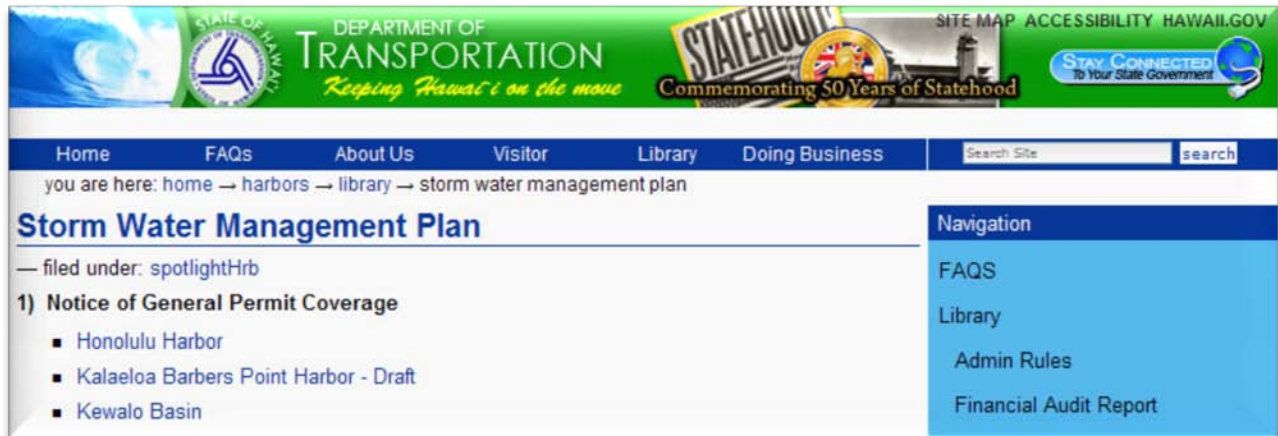
Harbors Division continues to respond to violations observed during these inspections in accordance with the SWMP. Inspection findings were added to the database upon completion in January 2012.

Overall each of the tenants showed a willingness to cooperate and improve compliance with storm water regulations and the Harbor's SWMP. Inspections did not reveal any immediate threats to KBPH.

BMP 2-4 Inspection and Progressive Enforcement Program

Goal: Identify, track, inspect and ensure compliance with the Harbor Division's tenant lease agreements and TRPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update inventory of businesses and industries currently operating at the Harbor	Frequency of inventory update	On-going	Annual	Harbors Division	Inventory is updated
Create/update database to record and track tenant inspection findings, enforcement actions, and resolutions.	Database is created and functional	100% of inspections are recorded in the database	January 2012	Harbors Environmental Section	Database is located at Harbors Division office. Last updated in January 2012.
Conduct initial inspection at all commercial and industrial tenant facilities (refer to BMP 4-2 for follow-up inspection)	Percentage of commercial and industrial tenant facilities inspected	100% of tenants	Dec 2011; January 2012	Harbors Environmental Section, Weston, HDOT	9 of 9 (100%) KBPH tenants were inspected. 1 easement was inspected.
Add inspection findings and enforcement taken to database	Number of sites for which inspection findings, enforcement actions, and resolutions are added to database	100% of sites	Ongoing	Harbors Environmental Section	There were no enforcement actions against tenants at KBPH..

3.0 PUBLIC INVOLVEMENT/PARTICIPATION



Permit Requirements

<http://hawaii.gov/dot/har>

HAR, Chapter 11-55, Appendix K, Part 6(a)(2). *Include users of the permittee's small municipal separate storm sewer system in developing, implementing and reviewing the stormwater management plan.*

3.1 RECEIVE PUBLIC FEEDBACK ON SWMP

Public participation is intended to raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.

Public awareness of storm water quality issues is targeted to solicit comment by informed members, which may lead to a better and more effective plan and implementation. Harbors Division has invited public involvement and participation during the previous NGPC term by posting the SWMP to the Harbors Division website.

The current SWMP is in draft review with HDOH and USEPA Region IX; therefore no tenant or public comment has yet been solicited by Harbors Division. When the SWMP is ready for public comment, Harbors will post it on the website and request comments. Comments received will be tracked and changes will be implemented where necessary or improvements can be made. Please see BMP 3-1.

BMP 3-1 Receive Public Feedback on SWMP

Goal: To raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Ensure notification to harbor tenants of SWMP development capability	Percentage of tenants notified	100% of tenants notified	NA	Harbors Environmental Section	Not performed. SWMP still in draft review
Post the Draft SWMP to the Harbors website during public comment window	Number of people who viewed the SWMP online	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review
	Number comments received for SWMP revision	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review
Develop system for tracking comments and change produced by comments	Percentage of comments tracked	100% of comments tracked	NA	Harbors Environmental Section	Not performed. SWMP still in draft review

4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION



Permit Requirements

Kaunakakai Harbor, Hawaii. February 2006.

HAR Chapter 11-55 Appendix K Part 6.(a)(3). Develop, implement and enforce a program to detect and eliminate illicit discharges that at a minimum includes the following:

- (A) Establishment of rules, ordinances or other regulatory mechanism, including enforcement procedures and actions, that prohibit non-stormwater discharges, except those listed in section 1 that do not cause or contribute to any violations of water quality standards, into the permittee's small municipal separate storm sewer system,*
- (B) Procedures to detect and eliminate illicit discharges (as defined in 40 Code of Federal Regulations (CFR) Section 122.26(b)(2)), and*
- (C) Compilation of a list of non-stormwater discharges or flows that are considered to be significant contributors of pollutants and the measures to be taken to prevent these discharges into the permittee's small municipal separate storm sewer system, or reduce the amount of pollutants in these discharges.*

4.1 REGULATORY MECHANISMS IN-PLACE

Existing rules and ordinances that prohibit non-stormwater discharges are in place and include the following citation from HAR Title 19, Chapter 42, Section 127: no person shall "place, throw, deposit, or discharge, or cause to be placed, thrown, deposited, or discharged into the waters of any harbor, river or shore waters of the State any litter, or other gaseous, liquid or solid materials which render the water unsightly, noxious or otherwise unwholesome so as to be detrimental to the public health and welfare or a navigational hazard. No person shall discharge oil sludge, oil refuse, fuel oil or molasses either directly or indirectly, or pump bilges or ballast tanks containing other than clean water into the waters of any harbor, river or into any shore waters in the State."

The rules are made enforceable by Title 19, Chapter 41 Section 12 which grants the HAR the full force and effect of law pursuant to sections 266-2, 266-3, 266- 4, and 266-25, Hawaii Revised Statutes (HRS). The enforcement of these rules shall also be pursuant to the provisions of section 26-14.6, HRS. The violation of these rules shall be subject to penalties as set forth in section 266-25, HRS, and the Harbors IEP.

Further, HAR Title 19 Chapter 42 Section 15 requires compliance with Federal, State, and County laws, ordinances and rules, and in particular rules of the HDOH pertaining to air and water pollution.

TRPs and tenant lease agreements incorporate language which requires compliance with all storm water quality regulations. Copies of "Lease Agreement Addendum 1, Environmental Compliance - Lessee's Duties" and an excerpt from the Standard Revocable Permit form, "Section 26. Special Terms and Conditions, Environmental Compliance - Permittee's Duties" are provided in the SWMP and Appendix B of this report.

4.2 ILLICIT DISCHARGE DETECTION AND ELIMINATION PLAN

Harbors Division has developed an IDDE plan as part of its SWMP in an effort to eliminate discharges that the established storm drainage system is not designed to accept, process, or discharge.

In accordance with its IEP, Harbors conducted inspections of nine of nine tenants at the KBPH (two tenants were located at both Honolulu Harbor and KBPH). Included in this task was the creation of comprehensive lists indicating the locations and quantities of various Non-Stormwater Discharges (NSWDs), potentially polluting materials, and BMPs in use at the facilities. The inspection findings will be completed by the end of 2011.

The resultant 2011 inspection report for each inspection will be sent to each tenant in 2012. The inspection reports contain the following:

- ✓ An explanation the objective of the inspections;
- ✓ Tenant contact information;
- ✓ Facility description;
- ✓ A list of potential pollutant sources;
- ✓ A description of stormwater flow throughout the site;
- ✓ A summary of inspection observations;
- ✓ A tenant risk ranking;
- ✓ Any required follow-up actions; and
- ✓ A photo log documenting deficiencies and good practices.

Inspection observations include industrial activity, petroleum and solvent storage quantities, mode of storage, potential pollution sources, a description of site drainage, observed BMPs, and required BMPs.

Overall, all tenants that had discrepancies were unaware of storm water regulations pertaining to the issue and showed willingness to comply immediately. In some cases where discrepancies showed an immediate threat to water quality, tenants were asked to rectify the discrepancy during the inspection. For example, in cases where the discrepancy was an outdoor sink that discharged onto the ground, tenants were instructed to remove the sink from service immediately.

Discrepancies that could not be immediately rectified were communicated to the tenant representative and forwarded to the Harbors' Environmental Section for follow-up.

A letter is sent to each recalcitrant tenant or tenant that is found to have poor practices to the extent that there is a potential negative impact to the environment. These letters are signed by the Deputy Directory of DOT Harbors Division and strongly convey that failure to meet the requirements of the letter can result in fines or termination of the tenant's revocable permit. The letter requires response within 20 days of receipt. No KBPH tenants were issued a letter in 2011.

4.2.1 Update Storm Sewer System Map

The most up-to-date MS4 outfall map is included as Appendix I of this document. The map contains outfall locations, drain and piping locations, and outfall IDs. Sources of non-stormwater discharges were identified in the dry-weather outfall reconnaissance inventory (ORI) and documented in reports found in Appendix J. Please see BMP 4-1.

BMP 4-1 Update Storm Sewer System Map

Goal: Develop a comprehensive infrastructure map of the MS4 storm drain system					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update outfall maps to identify sources of outfall discharges and outfall conditions	Percentage of outfalls that have sufficient, up-to-date information	100% of outfalls	16 Dec 2011	Harbors Environmental Section	Locations on maps were confirmed with GPS device
	Sources of outfall discharges identified	100% of sources identified	16 Dec 2011	Harbors Environmental Section	Outfall discharges identified in reports. See Appendix J

4.2.2 Outfall Reconnaissance Inventory (ORI)

An annual dry weather ORI was performed December 16, 2011 by the Harbors Environmental Division. The ORI was made at low tide and observed outfall conditions, flow characteristics, and the surrounding areas.

A map of the KBPH outfalls is included as Appendix I. The ORI forms are included as Appendix J. Please see BMP 4-2.

Important sections of the form are listed in Table below and include

- ✓ The location of the outfall;
- ✓ Date of the inspection;
- ✓ Qualitative measurement of flow at the outfall; and
- ✓ Notes that include observations of conditions, surroundings, ocean life, etc.

Table 4-1 Honolulu Harbor Dry Weather Inspections

Outfall	Date	Flow	Indicators of Illicit Discharge	Notes
BP-01	12/16/2011	No	None	
BP-02	12/16/2011	No	None	
BP-03	12/16/2011	No	None	Six struts from BP-04
BP-04	12/16/2011	No	None	Eight struts from BP-05
BP-05	12/16/2011	No	None	Three struts from BP-06
BP-06	12/16/2011	No	None	Eight struts from BP-07
BP-07	12/16/2011	No	None	Ten struts from BP-08; 2-12in within 20ft
BP-08	12/16/2011	No	None	Four struts from BP-09
BP-09	12/16/2011	No	None	Eight struts from BP-10
BP-10	12/16/2011	No	None	Ten struts from BP-11
BP-11	12/16/2011	No	None	Two struts
BP-12	12/16/2011	No	None	Three struts from BP-27
BP-13	12/16/2011	No	None	Seven struts from BP-14
BP-14	12/16/2011	No	None	
BP-15	12/16/2011	No	None	Two struts from BP-16
BP-16	12/16/2011	No	None	Three struts from BP-17
BP-17	12/16/2011	No	None	Four struts from BP-18
BP-18	12/16/2011	No	None	One strut from BP-19
BP-19	12/16/2011	No	None	Three struts from BP-20
BP-20	12/16/2011	No	None	Five struts from BP-21
BP-21	12/16/2011	No	None	Eight struts from BP-22
BP-22	12/16/2011	No	None	One strut from BP-23
BP-23	12/16/2011	No	None	Eight struts from BP-24
BP-24	12/16/2011	No	None	Struts are 22ft apart
BP-25	12/16/2011	No	None	Possible are missed - three struts left of 36in BP-14
BP-26	12/16/2011	No	None	Three struts from BP-14
BP-27	12/16/2011	No	None	Five struts from BP-26
BP-28	12/16/2011	No	None	Two struts from BP-02
BP-29	12/16/2011	No	None	

BMP 4-2 Outfall Reconnaissance Inventory

Goal: Establish and carry out procedures to identify and remove illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Dry weather visual inspection of outfalls	Percentage of outfalls inspected	100% of outfalls inspected on-time	December 16 2011	Harbors Environmental Section	Completed
Wet weather inspections of outfalls	Percentage of outfalls inspected	20% of outfalls inspected on-time	NA	Harbors Environmental Section	A wet weather inspection was not performed due to weather. One will be performed in 2012.
Collect and analyze reports of illicit discharges.	Number of apparent illicit discharges reported.	100% of illicit discharges found	NA	Harbors Environmental Section	No illicit discharges found.
Input inspection findings into database.	Percentage of findings input into database	100% of findings	December 2011	Harbors Environmental Section	100% of ORI findings input into database.
Ensure proper measures and controls are implemented to mitigate pollutants in permitted NSWDs	Number of permitted NSWDs found that lack proper controls	Reduced from previous year	NA	Harbors Environmental Section	No permitted NSWDs exist to date
Document these controls in a database with tenant information and Tax Map Key (TMK)	Percentage of permitted NSWDs recorded in database	100% of identified permitted NSWDs	NA	Harbors Environmental Section	NA

4.2.3 Illicit Discharge Reporting

The Harbors Division Environmental Section collects and records reports of storm water quality violations through its storm water hotline. Calls are recorded on the SHOT Form, available in Appendix G of this document. There were no illicit discharges reported through the hotline in 2011. The hotline will be advertised in future educational mailings and educational workshops. Please see BMP 4-3.

Harbors Grounds Maintenance personnel track illicit discharge incidents utilizing a Pier Inspection Form to record their observations. No illicit discharges were recorded by Harbors Ground Maintenance in 2011; however a monthly spill log was kept and is included as Appendix K.

The Honolulu Tower keeps a log of all incidents reported for Honolulu Harbor. The log details the date, time, location, vessel involved, and description of the findings or incident reported. A summary of the log entries pertaining to environmental or storm water issues is provided as Appendix H. Please see BMP 4-3. The Honolulu Tower is required to notify Harbors Division Environmental Section on all environmental issues.

BMP 4-3 Illicit Discharge Reporting

Goal: Encourage public education and involvement in eliminating illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Collect violation reports from the Marine Traffic Control Center	Percentage of violations reported	100% of violation reports collected	Continuous	Harbors Environmental Section	Follow up conducted as needed
Record report of illegal discharge incidents	Keep Marine Cargo Specialist inspection reports on-file.	100% of Pier inspection reports are kept	TBD	Harbors Environmental Section	No inspection reports received.
Establish the illicit discharge/illegal dumping hotline	A hotline for citizens to report illegal dumping and suspicious discharges will be established in the first year. (See BMP 2-1)	Establish one hotline	22 Oct 2009	Harbors Environmental Section	Completed
Determine effectiveness of hotline	Number of illicit discharge/illegal dumps reported by citizens	Increasing from previous year	NA	Harbors Environmental Section	No calls received by Hotline in 2011
	Number of illicit discharges prevented or stopped due to call to hotline	Increasing from previous year	NA	Harbors Environmental Section	NA
Advertise hotline	The hotline will be advertised on an insert in each TSI mailing and on all storm water pollution prevention signage	One TSI mailing insert per year and all signage	Registered mail receipt varies	Harbors Environmental Section	The hotline was advertised in TSI mailing in 2011. Quick reference cards distributed at training.

4.2.4 Inspection and Enforcement Plan

When an illicit discharge is determined to have taken place, appropriate action is taken against the responsible parties according to the IEP. This document establishes specific inspection procedures, enforcement tools, and the progressive escalation of enforcement action with regard to the seriousness of the illicit discharge and the recalcitrance of the dischargers.

Harbors ranked each tenant based on the tenant's potential to contribute pollutants to the environment. See BMP 4-4. The results of the tenant risk rankings will be reevaluated for accuracy each calendar year. The tenant's ranking determines the frequency of inspection according to the IEP. High risk tenants will be inspected twice per year, medium ranking tenants will be inspected annually, and low ranking tenants will be inspected biannually. Risk rankings and corresponding inspection frequencies will be determined following the inspection of all Harbors tenants currently being concluded.

Harbors Division maintains records, including inspection reports, warning letters, notices of violation, resolutions, and other enforcement records demonstrating its good faith effort to bring tenant facilities into compliance with applicable requirements. Tenants are provided with inspection findings in the form of a letter. No major enforcement actions were taken in 2011 as a result of inspections. See BMP 4-4.

BMP 4-4 Inspection and Enforcement Plan

Goal: Eliminate illicit discharges through inspection and enforcement.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Establish/update ranking of tenants according to Inspection and Enforcement Manual	Percentage of tenants ranked	100% of tenants ranked	January 2012	Harbors Environmental Section	Completed rankings for nine tenants (100%).
Perform initial investigation upon discovery or notification of a suspected illicit discharge or connection.	Percentage of reports investigated	100% investigated	NA	Harbors Environmental Section	No IDDE reported this period.
Follow up investigation of illicit discharge	Percentage of investigations followed up	100% Follow up	NA	Harbors Environmental Section	No IDDE reported this period.
If enforcement action has taken place, perform	Same as above	Same as above	NA	Harbors Environmental Section	No IDDE reported this period.

Goal: Eliminate illicit discharges through inspection and enforcement.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
follow up inspection within two weeks of initial inspection					
Initiate investigation of complaints transmitted by HDOH regarding facilities within its jurisdiction	Percentage of reports investigated	100%	NA	Harbors Environmental Section	No complaints by HDOH.

4.2.5 Employee Training

Harbors Division annually provides initial and refresher NPDES training to key personnel to instruct personnel at all levels of responsibility, including Harbors Oahu District Enforcement (HAR-OE) personnel, concerning the components and goals of the SWMP. Please see BMP 4-5. The instruction addresses the following areas:

- ✓ Regulatory requirements,
- ✓ Materials management practices including proper storage, handling, and use of materials,
- ✓ Good housekeeping and criteria for clean working environment,
- ✓ Recognizing conditions that could lead to degraded runoff water quality,
- ✓ Identifying and notifying responsible parties,
- ✓ Taking action to correct conditions that could result in storm water pollution,
- ✓ Warning and enforcement procedures, and
- ✓ Recording incidents.

A copy of the employee training materials can be found in Appendix L.

As stated in the SWMP, Harbors Division will provide train all employees who are responsible for identification, investigation, elimination, cleanup and reporting of illicit connections and other illicit discharges annually.

BMP 4-5 Employee Training

Goal: Eliminate illicit discharges through training of essential personnel.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop storm water IDDE training materials	Training materials address all relevant IDDE aspects and are up to date	IDDE is addressed	May 2011	Harbors Environmental Section, Weston	Completed. See Appendix L.
Train all employees who are responsible for identification, investigation, elimination, clean-up, and reporting of illicit connections/discharges	Frequency of employee training Number of employees trained	Once per year Train all applicable employees	May 2011	Harbors Environmental Section, Weston	Completed..

5.0 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL



Permit Requirements

Drain Inlet Control, Barbers Point. January 2006.

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce storm runoff pollutants entering the permittee's small municipal separate storm sewer system from construction activities disturbing one acre or more, including construction activities less than one acre that are part of a larger common plan of development or sale that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances and other regulatory mechanism, including enforcement procedures and actions, that require erosion and sediment controls,*
- (B) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices,*
- (C) Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts on water quality,*
- (D) Procedures for site plan review of construction plans which incorporate consideration of potential water quality impacts,*
- (E) Procedures for receipt and consideration of information submitted by the public,*
- (F) Procedures for site inspection and enforcement of control measures.*

5.1 CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

A Construction Site Runoff Control Program (CSRCP) has been developed and included as part of Harbor's SWMP in order to establish rules, ordinances, and other regulatory mechanisms in order to:

- ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
- ✓ Require erosion prevention and sediment controls at all construction projects;
- ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and

- ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.

The CSRCP includes the following:

- ✓ Construction site plan reviews;
- ✓ Pollution prevention;
- ✓ Source identification;
- ✓ BMP implementation;
- ✓ Construction site inspections;
- ✓ Enforcement measures;
- ✓ Report of non-compliant sites; and
- ✓ Education outreach for construction site operators

5.1.1 Required Document Review

Harbor Division's CSRCP applies to all construction projects existing within its jurisdiction, regardless of size or ownership of the construction site or activity.

Each Section of the HDOT Engineering Branch, including Planning, Design, Construction, Maintenance, and Environmental, reviews subsets of construction plans specific to their department for potential storm water impacts. HAR-EE reviews construction plans for potential storm water quality impacts, and drainage connection and discharge permit applications. This review process is tracked and included in the ACR. Please see BMP 5-1.

Construction site operators are required to submit a Storm Water Pollution Prevention Plan (SWPPP) and a Notice of Intent (NOI) under the Hawaii NPDES General Permit Authorizing Discharges of Storm water Associated with Construction Activity, HAR Chapter 11-55 Appendix C (the Hawaii Construction General Permit) for projects greater than one acre prior to approval. Harbors Division ensures that plans reflect the actual site conditions and are updated accordingly. The HDOH CWB implements NPDES requirements in Hawaii and administers review and granting of Individual and General Permit Coverage, however NOI requests for discharge of storm water from industrial sites and SWPPPs have been routed to HAR-EE for review and comment. In 2011 the following plans were reviewed by Harbors Division:

Table 5-1 Summary of Plans Reviewed

Location	Project Description
None reviewed in in 2011.	

TRPs and tenant lease agreements require compliance with all environmental laws and limit possession, usage and storage of hazardous wastes without lessor knowledge and consent.

Harbors Division requires that prior to new connections or discharge to the regulated drainage system, an application for the connection and/or discharge must be made. Upon review and

acceptance of the application, Harbors returns a permit for connection, a permit for discharge or comments explaining a denied connection or discharge.

Storm water BMPs are reviewed by HDOH CWB during NPDES NOI review, and may be reviewed by the City and County of Honolulu if plans are routed through them. Please see BMP 5-1. Harbors Division personnel including Marine Cargo Specialists, the Harbor agent, and Construction Inspectors may note implementation of BMPs and contractor waste management practices, and have authority to take action in the event of noncompliance.

BMP 5-1 Required Document Review

Goal: Prevent sediment and erosion runoff from construction sites during the planning phase.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Review construction plans for potential impacts in respective areas	Percentage of construction plans reviewed	100% of plans reviewed	NA	All HDOT Engineering Branch Sections	None tracked in 2011.
Review plans for storm water considerations during pre- and post-construction phases	Percentage of construction plans reviewed	100% of plans reviewed	NA	Harbors Design, Maintenance and Environmental Section	None tracked in 2011.
Review SWPPP, NOI, and discharge permit applications for construction projects	Percentage of documents reviewed	100% of documents reviewed	NA	Harbors Design, Maintenance and Environmental Section	None tracked in 2011..
Review erosion and sediment BMPs and waste management practices	Percentage of sediment BMPs and waste management practices reviewed	100% of BMPs and waste management practices reviewed	NA	HDOH Clean Water Branch, City and County of Honolulu, or Harbors Division	None tracked in 2011.

5.1.2 Construction Site Best Management Practices

Construction site BMPs serve the purpose of preventing sediment and other pollutants created from construction activities from reaching waters. In many cases BMPs prevent sediment and pollutants from being dislodged from their original locations.

Harbors Division requires that construction site operators implement appropriate erosion and sediment control BMPs as well as any other BMPs that will reduce the flow of pollutant off-site to the MEP. Selected BMPs must demonstrate an understanding of the soil texture and sediment size such that the BMP chosen provides the maximum benefit to runoff control. A specification sheet that includes stormwater BMP requirements has been developed and will be included with contractor solicitation documents. The Temporary Water Pollution, Dust, and Erosion Control spec is included as Appendix M.

5.1.3 Site Inspection and Enforcement

Construction sites are inspected for compliance with the storm water-related requirements until construction is terminated, the site has been stabilized, and the site's NPDES construction permit has been closed. Inspections are at least once every two weeks during the months of October through April, then at least bi-monthly during the remaining months. Inspections ensure the following:

- ✓ Sediments generated at the project site are retained using adequate source control and structural BMPs;
- ✓ Construction-related materials and wastes are retained at the project site to avoid discharge to the storm sewer and waters of the United States;
- ✓ Unauthorized non-storm water runoff is contained at the project site; and
- ✓ Erosion from slopes and channels are controlled by implementing an effective combination of erosion and sediment control BMPs, such as limiting grading during the wet season; inspecting graded areas during rain events; planting and maintenance of vegetation on slopes; and covering slopes susceptible to erosion.

Enforcement is executed according to the IEP located in Harbor Division's EMS Manual. Reports include a list of all construction projects, inspection dates, and resolution of any violations of storm water-related requirements and can be found in Appendix N. Please see BMP 5-2.

Table 5-2 Summary of Construction Inspections

Project Number	Project Title	Dates Inspected	Corrective Actions
HC 10239	Perimeter Fencing at Honolulu and Kalaeloa Barbers Point	2/22/2011, 3/10/2011, 3/22/2011	None
HC 10414	Embankment Repairs at Kalaeloa Barbers Point Harbor	2/2/2011, 2/16/2011	None
HC 10423	Repair Bollards at Piers 31-33, Honolulu Harbor	4/21/2011, 5/2/2011, 12/9/2011, 12/28/2011	None

BMP 5-2 Site Inspection and Enforcement

Goal: Ensure implementation of BMPs and controls by construction site operators through inspection and enforcement.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Perform inspections of permitted construction sites for implementation of construction site BMPs	Frequency of inspection	At least once every two weeks during the months of October thru April, then at least bi-monthly during the remaining months	Throughout the year	Harbors Division, Site Inspectors	Completed. See Table 5-1 for summary and Appendix N for reports.
	Number of construction sites inspected	100% of construction sites	Throughout 2011	Harbors Division, Site Inspectors	3 of 3 (100%)
Incorporate inspection of storm water components into inspection program	Construction site storm water deficiencies are reduced	Deficiencies are reduced from previous year	Throughout 2011	Harbors Division, Site Inspectors	Baseline established. Erosion and sediment control inspections already underway.
Keep a list of all construction projects, inspection dates, and resolution of violations for the ACR.	Completeness of inventory	100% of construction sites, inspections, resolutions, and violations recorded	Throughout 2011	Harbors Construction and Environmental Section	File created at Harbors and 100% of known construction sites inspected.

5.1.4 Receipt of Public Input

Harbors Division remains open to public comment and illicit/NSWD reporting. The public is able to contact Harbors Division via hotline, email, website, or mail. Communications are logged on the HAR-EE Spill Documentation Form and appropriate responses are made. No public input was received during the 2011 period. Please see BMP 5-3.

BMP 5-3 Receipt of Public Input

Goal: To remain receptive public to opinion and involvement					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Accept and follow up on public reporting and record outcome	Track number of public reports	Increase from previous year	NA	Harbors Environmental Section	None received

5.1.5 Training and Outreach

Harbors Division employees who are responsible for construction plan review and site inspections are trained annually in the requirements of the SWMP and Hawaii General Permits. A copy of the Stormwater Construction Inspection training is available as Appendix O. Please see BMP 5-4.

Employees were trained in plan review and inspection procedures.

Construction plan review training included the following 10 elements taken from EPA guidance:

- ✓ Minimize clearing and grading;
- ✓ Protect waterways;
- ✓ Phase construction to limit soil exposure;
- ✓ Immediately stabilize exposed soils;
- ✓ Protect steep slopes and cuts;
- ✓ Install perimeter controls to filter sediments;
- ✓ Employ advanced sediment settling controls;
- ✓ Certify and train contractors on storm water site plan implementation;
- ✓ Control waste at the construction site; and
- ✓ Inspect and maintain BMPs.

Construction site inspection included training on specific forms from the Harbors EMS Manual:

- ✓ HDOH CWB NOI General Form
- ✓ HDOH CWB NOI Form C
- ✓ EMS Manual Appendix G – Inspection and Enforcement Program
- ✓ EMS Manual Appendix H – Construction Program
- ✓ HAR 11-55 Appendix C

Education and outreach will be provided for stakeholders. Educational materials currently include a specification section for construction storm water BMPs. Please see BMP 5-4. The intent of

these educational materials is to make certain that the site manager or onsite coordinator is aware of the proper installation and maintenance procedures for construction storm water BMPs.

5.1.6 Dredge Spoil Stockpile Management Plan

As part of the 2009 SWMP, Harbors developed a dredged spoil stockpile management plan for implementation of erosion and sediment control BMPs, the purpose of which is to prevent both wind-and water-caused erosion of the stockpiled materials. Existing stockpiles and stockpile control measures were investigated during 2009 through 2011 in order to create the stockpile management plan. The stockpile management plan has been revised and is currently being implemented. Stockpile management activities for 2011 include issuance of a design and contract for installation of erosion and sediment control BMPs. Surfactants will be utilized for erosion control and new silt barriers will be installed along the perimeter of the piles.

Stockpile management activities for 2012 will follow the first phase of the plan, which includes surveying stockpiles to further investigate topography, installation of vegetated swales, and soil composition analysis for re-use.

BMP 5-4 Training and Outreach

Goal: Foster widespread knowledge of construction BMPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop internal training materials for plan review staff and inspectors	NA	NA	June 2011	Harbors Environmental Section	Updated in 2011. See Appendix O.
Conduct training for employees who are responsible for construction site inspections	Educate construction inspectors about proper selection, installation, inspection, and maintenance of BMPs	100% of construction site inspectors received education	June 2011	Harbors Environmental Section	Training conducted in June 2011
Provide educational materials for plan reviewers	Percent of plan reviewers receiving educational materials	100% of plan reviewers received educational materials	June 2011	Harbors Construction and Environmental Section	100%
Provide educational package to construction sites	Percentage of construction sites covered	100%	NA	Harbors Engineering Branch	To be implemented in 2012.
Post educational materials on Harbors website	Increase views to website	Increased views from previous year	NA	Harbors Web Master	Materials to be uploaded in 2012.

6.0 POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT



Permit Requirements

Vegetated Swale, Kahului, Hawaii

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce pollutants in storm runoff entering the permittee's small municipal separate stormwater sewer system from new development and redevelopment projects which disturb greater than or equal to one acre, including construction sites less than one acre that are part of a large common plan or development or site that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances, and other regulatory mechanism, including enforcement procedures and actions, that address post-construction runoff from new development and redevelopment projects,*
- (B) Structural or non-structural best management practices to minimize water quality impacts and attempt to maintain pre-development runoff conditions, and*
- (C) Procedures for long-term operation and maintenance of best management practices.*

6.1 POST-CONSTRUCTION STORMWATER MANAGEMENT PROGRAM

Harbors Division has developed a Post-Construction Stormwater Management Program as part of its SWMP to prevent polluted storm water discharges from areas of new development and significant redevelopment. This program includes project reviews based on the post-construction erosion control NPDES permit regulations and the Development Standards requirements. The purpose of the post-construction program is to provide a mechanism by which ongoing protection of storm water quality can be addressed and attained.

Post-construction storm water management is also addressed in part by the preceding minimum control measures: public education and outreach, public involvement and participation, and illicit discharge detection and elimination.

6.1.1 Construction Permit Review Process

As part of the NPDES program, HDOH CWB administers review of projects that are equal to or greater than one acre in size. Applicants for coverage under the Nationwide General Permit or Individual Storm Water Discharge Permits submit applications including descriptions of the project scope and schedule, contractor, past land use history, existing conditions and potential pollution sources, construction and post-construction site-specific BMPs.

Harbors Division's review process has the goal of maintaining or improving pre-development runoff conditions. As such, Harbors requires construction applicants to perform a pre- and post-development hydrological analysis to protect natural channels from erosion, to size storm drainage infrastructure, and to address flooding.

Harbors Division identifies controls that provide treatment and reduce storm water volume and velocity. Harbors Division also ensures that on-going maintenance of BMPs is provided in the plans and properly executed, as BMPs are not effective unless properly maintained.

No NPDES Permit and Low Impact Development Standards (LIDS) compliance applications were received in 2011. Please see BMP 6-1.

BMP 6-1 Review NPDES Permit Application

Goal: To ensure that long-term controls are in place to prevent degradation of storm water					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Review NPDES Permit and LIDS compliance applications	Percentage of applications reviewed	100% of applications	NA	Harbors Division Environmental, Design and Maintenance Sections	No applications received.

6.1.2 Low Impact Development Standards Plan

Harbors Division has developed a low impact development standard (LIDS, see SWMP) that requires measures to reduce pollution discharges to the MEP from all new development and significant redevelopment projects. The LIDS requirements apply to all new development and significant redevelopment projects.

Significant redevelopment includes, but is not limited to expansion of a building footprint, or replacement of a structure; replacement of impervious surface that is not part of a routine maintenance activity; and land-disturbing activities related to structural or impervious surfaces. Where significant redevelopment will result in an increase of less than 50 percent of the impervious surfaces of a previously existing development, and the existing development was not subject to LIDS, the BMP design standards apply only to the addition, and need not be applied to the entire development.

Implementation of LIDS and amendments of TRPs and tenant lease agreements will follow the completion of the Final SWMP. Please see BMP 6-2.

BMP 6-2 Low Impact Development Standards Plan

Goal: Reduce pollution discharges to the MEP from all new development and significant redevelopment projects					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Implement LIDS and amend tenant lease agreements and TRPs as necessary	Percentage of necessary lease agreement and TRP amendments conducted	100%	TBD	Harbors Environmental Section, Design and Maintenance	To be released with Final SWMP

6.1.3 Structural and Non-Structural BMPs

Post-construction storm water quality efforts are currently addressed by Harbors Division through the following BMPs or integration of the following BMPs:

- ✓ Preserve undeveloped areas where such areas are not required by operations to be paved,
- ✓ Consider surface treatments for improved areas which retain rainfall and allow percolation rather than impervious surfacing which generates runoff, such as paver tiles in lieu of asphalt or concrete pavement,
- ✓ Preserve naturally occurring flat to low slopes in all areas, which minimize runoff concentration, quantity, velocity and erosive capability,
- ✓ Where runoff flows are concentrated, provide durable drainage systems sized to convey peak flows,
- ✓ Review construction plans to provide and maintain grading which limits the area of the drainage basin discharging into the harbor,
- ✓ Continuously monitor operations to ensure that major tenants using pier aprons adequately clean the aprons upon completion of loading/offloading activities,
- ✓ Implement structural BMPs that reduce the quantity of storm runoff at the Harbor,
- ✓ Operational areas will be paved with reinforced concrete or asphalt concrete, to prevent erosion. These surfaces will also allow spills of materials to be cleaned up,
- ✓ Maintain minimal to low slopes throughout improved areas (access roadways, piers and aprons) where surfaced with asphalt or reinforced concrete, which reduces runoff peak flow quantities and velocity.

Harbors Division evaluates current BMPs to determine if they sufficiently meet the requirements of the NPDES permit and, if they are lacking, Harbors Division requires tenants and contractors to implement the appropriate BMPs.

Post-construction storm water BMPs are evaluated by Harbors during tenant inspections. No new post-construction BMPs were implemented during 2011. Please see BMP 6-3.

BMP 6-3 Structural and Non-Structural BMPs

Goal: Implementation of LID BMPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Evaluate current BMPs	Percentage of BMPs evaluated	100%	Ongoing	Harbors Construction and Environmental Section, Design and Maintenance	BMPs were identified during tenant inspections
Enforce development & implementation of new post-construction BMPs	Percentage of site potential pollutants are prevented	100%	NA	Harbors Construction and Environmental Section, Design and Maintenance	No post-construction BMPs developed in 2011

6.1.4 Operation, Maintenance, and Inspections

Structural or non-structural BMPs are not considered effective, nor are MEP criteria met, unless a long-term operation and maintenance procedure is put into place and carried out. Upon completion of construction, assurance is required for the long-term operation and maintenance of structural and non-structural BMPs. Please see BMP 6-4.

BMP 6-4 Operations, Maintenance, and Inspections

Goal: To maintain effectiveness of BMPs through operations and maintenance plans					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Create database to track operation and maintenance practices	Create a database	Database has been created	NA	Harbors Environmental Section	To be created in 2012
Perform scheduled operation and maintenance practices	On-time completion of maintenance practices	100% of O&M has been confirmed conducted	NA	Oahu District	Identified BMPs will be documented and O&M will be confirmed in 2012
Inspect project for post-construction controls	Percentage of potential pollutants mitigated	Equal to maximum standard operating capacity	NA	Harbors Construction Environmental Section Inspectors and	To be inspected in 2012.

6.1.5 Stakeholder Education and Outreach, Employee Training

Tenant TRPs and tenant leases require maintenance of post-construction runoff control measures in their premises. An educational packet will be sent to all stakeholders, which include tenants and their contractors. The education package will include:

- ✓ A post-construction BMP template
- ✓ BMP Checklist
- ✓ Questions relating to post-construction storm water management on the TSI

While it is the responsibility of the tenant to ensure that their construction contractors are educated in Post-Construction considerations, Harbors will send educational material to contractors that are identified to be working on Harbors property. Please see BMP 6-5.

Harbors internal training will include guidance on the inspection of post-construction BMPs. Please see BMP 6-5. Inspection training also includes proper operations and maintenance of typical post construction BMPs, indicators of BMP failure, and inspection techniques.

BMP 6-5 Stakeholder Education and Outreach

Goal: Create awareness with stakeholders and employees to reduce post-construction run-off.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop post-construction educational package	NA	NA	NA	Harbors Environmental Section	Educational materials to be developed in 2012
Distribute educational packet in TSI Mailing	Percentage of tenants in receipt of mailing	100%	NA	Harbors Environmental Section	Educational materials were developed and distributed.
Post information on Harbors Division website	Track number of views	Greater than previous year	NA	Harbors Web Master	Information to be posted in 2012
Conduct training	Percentage of employees and tenants trained	Greater than previous year	NA	Harbors Environmental Section	Training conducted with general stormwater awareness

7.0 POLLUTION PREVENTION/GOOD HOUSEKEEPING



Permit Requirements

Hawaii Harbor (left) and Sand Island (right), January 2006

HAR Chapter 11-55 Appendix K Part 6.(a)(4). *Develop, implement and enforce an operation and maintenance program to prevent and reduce stormwater pollution from activities, including but not limited to, park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance that, at a minimum, includes the following:*

- (A) *Good housekeeping and other control measures, and*
- (B) *Employee and contractor training on good housekeeping practices, to ensure that good housekeeping measures and best management practices are properly implemented.*

7.1 POLLUTION PREVENTION/GOOD HOUSEKEEPING PROGRAM

A Pollution Prevention/Good Housekeeping Program has been developed with the ultimate goal of preventing or reducing pollutant runoff. The program includes an internal record-keeping system to schedule and document the maintenance activities performed.

7.1.1 Maintenance and Housekeeping Practices

Maintenance is on-going at tenant and Harbors facilities. Please see BMP 7-1. The following maintenance activities are conducted:

- ✓ Emptying dumpsters and remove and dispose of discarded objects, machinery or equipment.
- ✓ Prompt repair/replacement of malfunctioning dumpsters
- ✓ General maintenance and repair of public facilities is conducted in-house, while a contractor is selected for most large projects.

- ✓ Grounds maintenance personnel use fertilizer or herbicides in accordance with the manufacturer's instructions and in a manner that eliminates potential for runoff into the gutters, or storm drain system.
- ✓ Pier and apron cleanliness is assessed for debris and staining, and responsible parties notified to conduct cleaning as needed. Operators with leaking vehicles are required to park vehicles and equipment indoors/under cover, provide drip pans and repair leaks.
- ✓ Vehicle and equipment washing on Harbors property is prohibited unless performed in an approved wash facility.
- ✓ Clean up stains, spills, oil spots using dry cleanup methods. A record of spill cleanups can be found in Appendix J.
- ✓ Storm drains are maintained on a regular schedule and records are kept. Please see Appendix P.

7.1.1.1 Sweeping Common Areas and Select Tenant Facilities

Sweeping prevents microscopic pollutants from entering the ocean by removing them before they flow into the storm sewer. Regular sweeping is performed by Harbors Grounds Maintenance. Grounds Maintenance has four sweepers. Sweeping is performed according to the following schedule presented in Table 7-1.

Table 7-1 Grounds Maintenance Sweeping Schedule

Location	Frequency	Duration (Hours)
KBPH Common Roadways & Apron	Twice per month	4

This year approximately 251.9 tons of sweeper waste was removed for disposal from both Honolulu Harbor and Kalaeloa Barbers Point Harbor combined. Grounds Maintenance is also responsible for collection of trash, leaves and other debris, which prevents debris from blocking storm drains and causing localized flooding. In 2011 approximately 9.48 tons of green waste was disposed of at Hawaiian Earth Products, a green waste disposal company.

7.2 WASTE COLLECTION

Grounds Maintenance picks up and disposes of other potential pollutants left in drop off areas or discarded illegally by the public in order to prevent pollution to the environment. This includes automobile, boat, and motorcycle lead acid batteries, scrap steel, discarded used tires, and construction debris.

Table 7-2 is a compilation of the different types of waste collected by Harbors Division and their disposal destinations. Quantities listed are the combined amounts from both Honolulu Harbor and KBPH. All disposal receipts are kept as supporting documentation of compliance with storm water regulations. All values are for both Honolulu Harbor and KBPH.

Table 7-2 Waste Destination and Amounts

Waste Type	Destination Facility	Amount
Green Waste	Hawaiian Earth Products	9.48 tons
Refuse	Covanta Energy Honolulu Resource Recovery	313.53 tons
Sweeper Waste	PVT Land Company, Ltd.	201.76 tons
Refuse	Waimanalo Gulch	50.14 tons
Recycled Metal	Schnitzer Steel Hawaii Corp.	18.9 tons
Used Batteries	Leeward Auto Recycling	74 batteries

BMP 7-1 Maintenance and Housekeeping Practices

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Designate appropriate sweeping frequencies and perform sweeping	Percentage of facilities for which a written schedule is made and sweeping performed	100% of facilities	Common area schedule already in-place	Harbors Maintenance Management and Personnel; tenants	Common areas and facilities with contracts with Harbors are swept according to a schedule.
Designate appropriate drainage system maintenance and perform maintenance according to priority	Percentage of drainage systems that have been designated as urgent that have been cleaned	100% of urgent drainage systems	On-going	Harbors Maintenance Management and Personnel; tenants	Drainage priorities to be determined from 2011 inspection results.
Provide general instructions for identification, storage, use, collection and treatment of drainage and housekeeping educational materials to tenants	Percentage of tenants to which educational materials have been provided	100% of tenants	May 2011	Harbors Environmental Section	Instructions Provided in Harbors Storm Water training and mailing attachments
Provide training to employees	Percentage of employees to whom training has been provided	100% of employees	Ongoing	Harbors Environmental Section	Maintenance staff has been trained on general storm water pollution prevention. Please see Appendix L.

7.2.1 Review of Wash Areas, Dry Wells and Infiltration Sinks

Prior to 2011, Harbors Division prohibited all washing activities, including vehicle/equipment washing and hand washing with the use of sinks that are not already approved by HDOH because of the potential to create NSWDS. In 2011, Harbors Division began to allow tenants to formally submit applications to perform permitted washing activities.

The EPA stormwater BMP for Municipal Vehicle and Equipment Washing states the following:

“If a vehicle must be washed outside of a facility plumbed to the sanitary sewer, take precautions to avoid wash water discharges to the storm drain system. For small jobs, berm the area surrounding the vehicle and use a wet/dry vacuum to capture the wash water for discharge to the sanitary sewer. For larger jobs, use a combination of berms and a vacuum truck, such as those used to clean storm and sanitary sewer systems, to capture and safely dispose of wash water. If detergents are used, clean the pavement to prevent this material from being carried to the storm drain during the next rainstorm.”

- EPA Website Reference: <http://cfpub.epa.gov/npdes/stormwater/menuofbmps>

Harbors Division requires that applications for washing include the following information:

- ✓ What the tenant intends to wash;
- ✓ Equipment used (i.e. pressure sprayer, hose, etc.) and flow rate;
- ✓ Wash water containment method (permanent wash rack, temporary berm, etc.);
- ✓ Wash water capture method (vacuum truck, evaporation, etc.);
- ✓ Wash water collection container capacity; and
- ✓ Wash water disposal method.

Tenants are prohibited from washing equipment and vehicles until Harbors Division verifies that these washing activities do not create a potential hazard to the receiving waters. Harbors Division issues a formal letter of approval once these conditions are met. Thus far, no tenants at KBPH have applied for approval to wash. The application and review process is tracked on an annual basis in BMP 7-2.

Harbors Division requires that applications for sinks that are not connected to the sanitary sewer include the following information:

- ✓ The intended use of the sink;
- ✓ A list of substances that may be washed into the sink (i.e. bio-degradable soaps, dirt, etc.)
- ✓ Construction drawings for the sink;
- ✓ Proposed treatment of the water (filtration fabric, sand, carbon filters, oil-absorbent material, etc.)
- ✓ Final destination of wash water; and
- ✓ Routine maintenance schedule for the sink (replacement of filtration material).

Tenants are prohibited from using unapproved sinks until Harbors Division verifies that the sinks do not create a potential hazard to receiving waters. Harbors Division issues a formal letter of approval once these conditions are met. Thus far, no tenants at KBPH have applied for approval for a sink. The application and review process is tracked on an annual basis in BMP 7-2.

BMP 7-2 Review of Wash Areas and Sinks

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Review applications for vehicle and equipment wash areas for storm water concerns.	Number of applications submitted and reviewed.	100% of applications.	Ongoing	Harbors Environmental Section	No applications have been submitted.
Review applications for sinks for storm water concerns.	Number of applications submitted and reviewed.	100% of applications	Ongoing	Harbors Environmental Section	No applications have been submitted.

7.2.2 Tenant Education and Employee Training

Tenants were educated about pollution prevention and good housekeeping practices at the annual Harbors training. A copy of the presentation given and a record of attendance are located in Appendix E. A video entitled, “Storm Watch,” by EXCAL Visual Communications, was shown during the presentation and topics including the following were discussed:

- ✓ Proper methods for cleaning equipment;
- ✓ Proper labeling and handling of cleaners, solvents, and chemicals;
- ✓ Organized chemical storage;
- ✓ Responsible disposal of chemicals;
- ✓ Storage procedures for stored metals;
- ✓ Proper site drainage;
- ✓ Proper equipment/material storage;
- ✓ Timely equipment operation and maintenance; and
- ✓ Proper site maintenance.

Slides depicting examples of proper and improper BMPs were also presented to illustrate acceptable procedures.

BMP 7-3 Tenant Education, Employee and Contractor Education

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop educational materials and distribute to tenants	Percentage of tenants in receipt of educational materials	100% of tenants	September 2011	Weston	TSI attachments provided information and tips on housekeeping practices. Will develop contractor educational materials in 2012.
Hold training sessions for employees tasked with maintenance activities	100% of employees trained	100% of employees	Ongoing	Harbors Environmental Section	General awareness training conducted in 2011. Please see Appendix L.

8.0 ADDITIONAL ANNUAL COMPLIANCE REPORT REQUIREMENTS



8.1 MODIFICATIONS TO THE SWMP

Per USEPA Order for Compliance, paragraph 1, the SWMP was revised to more comprehensively detail specific BMPs that will be implemented for each of the program minimum control measures, with underlying rationale for their selection and inclusion. Requirements to specify quantitative goals, provide metrics for improvement, and milestones for each of the BMPs; and the name or name or position title and affiliation of the person or persons responsible for implementation or coordination of each program component are now tracked through the ACR.

Harbors Division made appropriate modifications to reflect the above requirements with its 2009 Draft SWMP submission and is currently awaiting comments from the USEPA and HDOH to incorporate into the revised SWMP.

8.2 MODIFICATIONS TO THE SMALL MS4

No major modifications have been made to the Small MS4 during the 2011 calendar year. A copy of the outfall map is available in Appendix I.

8.3 SUMMARY OF PLANNED ACTIVITIES

8.3.1 Public Education and Outreach

- ✓ Replace TSI form with contact information form to eliminate redundancy with inspection program
- ✓ Add additional educational materials
- ✓ Record hotline inquiries and track response time
- ✓ Post signs that advise against dumping
- ✓ Post tenant training presentation on Harbors website
- ✓ Set up and solicit a volunteer cleanup or storm drain stenciling activity
- ✓ Sponsor a yearly advertisement in the newspaper
- ✓ Monitor ship cargo loading and unloading
- ✓ Develop and maintain an inventory of ships and agents responsible for tracking vessel operators

- ✓ Provide educational materials to vessel operators
- ✓ Keep tenant inventory up-to-date
- ✓ Conduct inspections of all tenants by December 31, 2012
- ✓ Add findings, follow-up to the database

8.3.2 Public Involvement

- ✓ Post SWMP to the Harbors website for public review and comment when completed
- ✓ Track comments and include them in the ACR for 2011

8.3.3 Illicit Discharge Detection and Elimination

- ✓ Create a comprehensive list of NSWDS and control measures for all tenants
- ✓ Continue procedures outlined in the IEP
- ✓ Conduct dry and wet weather ORI
- ✓ Perform follow-up on dry weather NSWDS observations

8.3.4 Construction Site Runoff Control

- ✓ Dependent on construction plan submittal
- ✓ Perform construction site plan and permit reviews
- ✓ Include Water Pollution Prevention specifications in contractor solicitation documents
- ✓ Report and implement enforcement procedures against construction sites that are found to be out of compliance
- ✓ Perform construction site inspections to identify possible sources of pollution and to ensure BMP's are providing an appropriate level of pollution prevention. Inspections will specifically target the following:
 - ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
 - ✓ Require erosion prevention and sediment controls at all construction projects;
 - ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and
 - ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.
- ✓ Execute Stockpile Management Plan

8.3.5 Post-Construction Storm Water Management

- ✓ Inventory existing BMPs if found during tenant inspections
- ✓ Perform follow-up construction site permit reviews

- ✓ Enforce the incorporation of Low Impact Development Standards into all new development
- ✓ Ensure structural and non-structural BMP's are in place post-construction to minimize water quality impacts and attempt to maintain pre-development runoff conditions
- ✓ Ensure the longevity of post-construction BMP's via the creation of a long-term operation and maintenance programs
- ✓ Generate and distribute educational materials in annual mailings to tenants and maintain educational materials on the Harbors Division Stormwater Management website
- ✓ Conduct annual tenant training workshop

8.3.6 Pollution Prevention/Good Housekeeping

- ✓ Continue the ongoing maintenance of tenant and Harbor's facilities
- ✓ Require all tenants that wish to perform wash activities to submit applications for washing vehicles and equipment with proper controls and procedures to prevent pollution of receiving waters. Track review and approval process.
- ✓ Harbors will expand its maintenance program to include preventative maintenance of the storm drainage system, internal record keeping and scheduling, and appropriate training of employees
- ✓ Perform inspections at the frequency determined by risk rankings and conduct annual training to ensure tenant's compliance with employee training, pollution prevention, and good housekeeping requirements

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APPENDIX A

NGPC FROM HDOH AND 2007 LETTER OF EXTENSION

LINDA LINGLE
GOVERNOR OF HAWAII



WYOMEL L. FUKINO, M.D.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 3378
HONOLULU, HAWAII 96801-3378

IC.
In reply, please refer to:
EMD / CWB

03KB488.FNL

May 19, 2003

The Honorable Rodney K. Haraga
Director
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813

Attention: Mr. Fred Nunes
Harbors Division
Engineering Program Manager

Dear Mr. Haraga:

Subject: NOTICE OF GENERAL PERMIT COVERAGE (NGPC)
National Pollutant Discharge Elimination System (NPDES)
Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System
Kapolei, Oahu, Hawaii
File No. HI 03KB488

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. § 1251 et seq.; the "Act"); Chapter 342D, Hawaii Revised Statutes; and Chapters 11-54 and 11-55, Hawaii Administrative Rules (HAR), Department of Health (DOH), State of Hawaii,

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION

(hereinafter "PERMITTEE")

authorized to discharge storm water runoff and certain non-storm water discharges as identified in Section 2.b. of this NGPC from the Hawaii Department of Transportation, Harbors Division (DOT-Harbors) Small Municipal Separate Storm Sewer System (Small MS4) outfalls identified in the Notice of Intent (NOI), dated March 7, 2003, and additional Small MS4 outfalls that may be identified from time to time by the DOT-Harbors, to the receiving waters named Kalaeloa Barbers Point Harbor, a Class A, Marine Water Embayment.

This NGPC is subject to the Permittee's compliance with:

- HAR, Chapter 11-55, Appendix K, NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems.
- HAR, Chapter 11-55, Appendix A, DOH, Standard General Permit Conditions.
- HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12, and any other applicable Sections of HAR, Chapter 11-55.

The Permittee shall, but not be limited to, comply with the following General Requirements, Discharge Monitoring Requirements, and Reporting Requirements.

1. GENERAL REQUIREMENTS

The Permittee shall:

- a. Comply with all materials submitted in and with the NOI, dated March 7, 2003.
- b. Retain a copy of the NOI; the submitted Storm Water Management Plan (SWMP), and all subsequent revisions; and this NGPC at the facility.
- c. Ensure that anyone working under this NGPC complies with the terms and conditions of this NGPC.
- d. Revise the SWMP if any discharge limitation or water quality standards established in HAR, Section 11-54-04 for marine waters are exceeded. The revisions shall include Best Management Practices (BMPs) and/or other measures to reduce the amount of pollutants found to be in exceedance from entering State waters.
- e. Obtain all necessary permits, certifications, approvals, etc. from all pertinent agencies for the subject project.
- f. Include the file number, HI 03KB488, and the following certification with all information required under this NGPC:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the

information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

- g. Submit all information required under this NGPC to the following address:

Director of Health
Clean Water Branch
Environmental Management Division
State Department of Health
P.O. Box 3378
Honolulu, HI 96801-3378

2. DISCHARGE MONITORING REQUIREMENTS

- a. The Permittee shall effectively prohibit non-storm water discharges through its system into State waters. NPDES permitted discharges and discharges identified in Section 2.b. of this NGPC are exempt from this prohibition.
- b. The following non-storm water discharges may be discharged into DOT-Harbors’ Small MS4 without an NPDES permit, provided that the DOT-Harbors determines that such discharges will not contain pollutants in amounts that will cause or contribute to a violation of an applicable water quality standard and the SWMP shall “identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.”
- i. Water line flushing;
 - ii. Landscape irrigation;
 - iii. Diverted stream flows;
 - iv. Rising ground waters;
 - v. Uncontaminated ground water infiltration (as defined in Title 40, Code of Federal Regulations (40 CFR) §35.2005(20));

- vi. Uncontaminated pumped ground water;
 - vii. Discharges from potable water sources and foundation drains;
 - viii. Air conditioning condensate;
 - ix. Irrigation water;
 - x. Springs;
 - xi. Water from crawl space pumps and footing drains;
 - xii. Lawn watering runoff;
 - xiii. Water from individual residential car washing;
 - xiv. Flows from riparian habitats and wetlands;
 - xv. Dechlorinated swimming pool discharges;
 - xvi. Residual street wash water; and
 - xvii. Discharges or flows from fire fighting activities.
- c. The discharge of pollutants from the DOT-Harbors' Small MS4 shall be reduced to the maximum extent practicable.

3. REPORTING REQUIREMENTS

The permittee shall:

- a. Develop, implement, and enforce the SWMP designed to reduce the discharge of pollutants from the DOT-Harbors' Small MS4 to the maximum extent practicable in order to protect water quality and satisfy the appropriate water quality requirements of the Act. In accordance with Section 6(a) of Appendix K, Chapter 11-55, HAR, the SWMP shall include the minimum control measures identified below:
 - i. Public Education and Outreach
 - ii. Public Involvement/Participation

- iii. Illicit Discharge Detection and Elimination
 - iv. Construction Site Runoff Control
 - v. Post-Construction Storm Water Management in New Development and Redevelopment
 - vi. Pollution Prevention/Good Housekeeping
- b. Submit the SWMP within 120 days of the Permittee's claimed automatic coverage which became effective on April 7, 2003.
- c. Develop measurable goals to gauge permit compliance and program effectiveness for each minimum control measure identified above. The permittee shall select measurable goals using an integrated approach that fully addresses the requirements and intent of the minimum control measure.
- d. Report in writing any proposed modification described in accordance with Section 6(c)(1) of Appendix K, Chapter 11-55, HAR, to the DOH for approval at least thirty days prior to the initiation date of the modification. The permittee shall report and justify all other modifications made to the SWMP in the annual report for the year in which the modification was made.
- e. Submit an annual report by January 28th of the following year in accordance with Section 9(a) of Appendix K, Chapter 11-55, HAR. The annual report shall cover each calendar year during the term of this NGPC and include the following:
- i. Status of compliance with conditions of this NGPC;
 - ii. Assessment of the SWMP, including progress towards implementing each minimum control measure;
 - iii. Modifications made to the SWMP and implementation schedule during that calendar year, including justifications;
 - iv. Summary of the storm water activities planned to be undertaken during the next calendar year; and
 - v. Major modifications made to DOT-Harbors' Small MS4, including, but not limited to, addition and removal of outfalls, drainage lines, and treatment facilities.

- f. Properly address all modifications, concerns, requests and/or comments to the DOH's satisfaction.
 - i. SWMP Modifications - The storm water pollution control activities described in the SWMP may need to be modified, revised, or amended from time to time over the life of the NGPC to respond to changed conditions and to incorporate more effective approaches to pollutant control. Minor changes may be proposed by the Permittee or requested by the DOH. Proposed changes that imply a major reduction in the overall scope and/or level of effort of the SWMP must be made for cause and in compliance with 40 CFR Section 122.62 and Part 124.
 - ii. System Modifications include any planned physical alterations or additions to the permitted Small MS4, any existing outfalls newly identified over the term of this NGPC.

This NGPC will take effect on the date of this notice. This NGPC will expire at midnight, November 6, 2007, or when amendments to HAR, Chapter 11-55, Appendix K, are adopted, whichever occurs first.

If you have any questions, please contact Ms. Joanna L. Seto of the Engineering Section, Clean Water Branch, at 586-4309.

Sincerely,



CHIYOME L. FUKINO, M.D.
Director of Health

- Enclosures:
- 1. HAR, Sections 11-55-01 and 11-55-34 to 11-55-34.12
 - 2. HAR, Chapter 11-55, Appendices A and K
 - 3. Title 40, CFR Citations as referenced in HAR, Chapter 11-55, Water Pollution Control, Appendix A

c: Mr. Fred Nunes, Engineering Program Manager, DOT-Harbors (w/o encls.)
[via fax 587-1864 only]

Mr. Charles G. Schuster, P.E., Edward K. Noda and Associates, Inc. (w/ Receipt No. 03552 for \$500 Filing Fee only)

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

In reply, please refer to:
DOH/CWB

03KB488.EXT

October 19, 2007

The Honorable Barry Fukunaga
Director
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

Attention: Mr. Frederick S. Nunes, P.E.
Engineering Program Manager
Harbors Division

Dear Mr. Fukunaga:

**Subject: Administrative Extension of
Notice of General Permit Coverage (NGPC)
Kalaeloa Barbers Point Harbor
Kalaeloa, Oahu, Hawaii
File No. HI 03KB488**

The Department of Health (Department), Clean Water Branch (CWB) acknowledges receipt of your Notice of Intent (NOI) and \$500 filing fee for coverage under the National Pollutant Discharge Elimination System general permit provisions, in accordance with the Hawaii Administrative Rules (HAR), Section 11-55-34.08.

The Department is unable to complete the processing of your project's NOI prior to the current NGPC expiration date. Therefore, in accordance with HAR, Section 11-55-34.09(d), the Department hereby administratively extends the subject NGPC until a notice of renewed coverage under the applicable general permit is issued or until notified by the Department, whichever occurs first. Please note that the Department may request you submit additional information in order to complete the processing of your NOI for the renewed coverage.

The Permittee shall not be held in violation of Hawaii Revised Statutes, Chapter 342D-6(h) and HAR, Chapter 11-55 during the pendency of its NOI, so long as it acts consistently with the NGPC presently granted. Any non-compliance with the conditions of the administratively extended NGPC may be subject to penalties of up to \$25,000 per violation per day.

It is the Permittee's responsibility to ensure that anyone working under this administrative extension of your NGPC understands and complies with the terms and conditions therein.

The Honorable Barry Fukunaga
October 19, 2007
Page 2

If you have any questions, please contact Ms. Joanna L. Seto, Supervisor of the Engineering Section, CWB, at 586-4309.

Sincerely,



FOR Chiyome Leinaala Fukino, M.D.
Director of Health

c: Mr. Randal Leong, DOT-HAR [via fax 587-1864 only]
Mr. Charles Schuster, EKNA Services, Inc. (w/Receipt No. 31732 for \$500 Filing Fee)

APPENDIX B

TENANT LEASE AGREEMENT AND TENANT REVOCABLE PERMIT

Lease Agreement Addendum 1

Environmental Compliance - Lessee's Duties

ADDENDUM 1

ENVIRONMENTAL COMPLIANCE – LESSEE'S DUTIES

A. Definitions.

For purposes of this Lease, Lessee agrees and understands that the following terms shall have the following meanings:

“Environmental Laws” shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

“Hazardous Substance” shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

B. Lessee's Activities and Duties.

1. Compliance with Environmental Laws. Lessee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the leased premises during the term of this lease, and Lessee's occupancy of, and activities on, the leased premises. This duty shall survive the expiration or termination of this lease which means that the Lessee's duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Lessee on the leased premises after the expiration or termination of this lease. Failure of the Lessee to comply with any environmental laws shall constitute a breach of this lease for which the Lessor shall be entitled, in its discretion, to terminate this lease and take any other action at law or in equity it deems appropriate. Lessee shall conform its operations with 49 CFR, Part 195 (Pipeline Safety), and shall install Time Domain Reflectivity (TDR) cable leak detection and monitoring equipment, which meet or exceed industry standards, adjacent to the fuel pipelines and related facilities, to provide an indication of any leak occurrence from any fuel pipeline or containment

device. In addition, the Lessee shall install a secondary containment wall/vaulting to prevent releases into the environment. The Lessee shall also develop, implement, and follow a written integrity management program that addresses the risks of each pipeline, and provides for periodic assessment of the integrity of each pipeline through internal inspection, pressure testing, or other equally effective assessment means, on a regular basis.

2. Hazardous Substances. Lessee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third person, on the leased premises (with the exception of the intended routine management of the petroleum products within the proposed pipeline) without first obtaining the written consent of the Lessor and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this lease.

3. Notice to Lessor. Lessee shall keep Lessor fully informed at all times regarding all environmental law related matters affecting the Lessee or the leased premises. This duty shall include, without limited the foregoing duty, providing the Lessor with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the leased premises and with evidence that the Lessee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation, or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Lessee by any federal or state authority, or individual, which relates in any way to any environmental law, or any hazardous substance, and the Lessee or the leased premises. As part of this written notice to the Lessor, the Lessee shall also immediately provide the Lessor with copies of all written communications from individuals, or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Lessee. At least thirty days prior to termination of this lease, or termination of the possession of the leased premises by Lessee, Lessee shall provide the Lessor with written evidence satisfactory to the Lessor that Lessee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Lessee that relate to the leased premises.

4. Notice to Authorities. Lessee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty days prior to the termination of this lease, or sixty days prior to Lessee's termination of possession of the leased premises, whichever occurs first, that Lessee intends to vacate the leased premises and terminate its operations on those leased premises. Lessee shall allow the agents or representatives of said authorities access to the leased premises at any and all reasonable times for the purpose of inspecting the leased premises, and taking samples of any material for inspection or testing for compliance with any environmental laws. Lessee shall provide copies of said written notices to Lessor at the time said notices are provided to said authorities.

5. Disposal/Removal. Except for materials that are lawfully sold in the ordinary course of the Lessee's business, Lessee shall cause any hazardous substances to be removed from the leased premises for disposal, and to be transported from the leased premises solely by duly licensed hazardous substances transporters, to duly licensed facilities for final disposal as

required by all applicable environmental laws. Lessee shall provide Lessor with copies of documentary proof, including manifests, receipts, or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.

6. Environmental Investigations and Assessments. The Lessee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the leased premises to determine the presence of any hazardous substance on, in, or under the leased premises as may be directed from time to time by the Lessor, in its sole discretion, or by any federal or state authority. The extent and number of any environmental investigations and assessments shall be determined by the Lessor or the federal or state authority directing said investigations and assessments to be conducted. Lessee shall retain a competent and qualified person or entity that is satisfactory to the Lessor or governmental authority, as the case may be, to conduct said investigations and assessments. Lessee shall direct said person or entity to provide the Lessor or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water, or other material that may be obtained for testing, and provide to the Lessor and the governmental authority written results of all tests on said samples upon completion of said testing.

7. Remediation. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the leased premises, Lessee shall, at its sole expense and cost, remediate the leased premises of any hazardous substances, and dispose/remove said hazardous substance in accordance with paragraph 4. This duty to remediate includes strictly complying with all environmental laws and directives to the Lessee to remediate said hazardous substance from the Lessor. This duty to remediate shall include replacement of any materials, such as soils, so removed with material that is satisfactory to the Lessor and governmental authority, as the case may be. In the event Lessee does not remediate the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the remediation is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of remediation.

8. Restoration and Surrender of Premises. The Lessee hereby agrees to restore the leased premises, at its sole cost and expense, including the soil, water and structures on, in, or under the leased premises to the same condition as the premises existed at the commencement of this lease, fair wear and tear to the structures excepted. In the event Lessee does not restore the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the restoration is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of restoration.

9. Lessor's Right to Act. In the event Lessee fails for any reason to comply with any of its duties under this lease or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the Lessor, Lessor shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Lessee

hereby grants access to the leased premises at all reasonable hours to the Lessor, its agents, and anyone designated by the Lessor in order to perform said acts and duties. Any cost, expense, or liability of any type that may be incurred by the Lessor in performing said acts or duties shall be the sole responsibility of the Lessee, and Lessee hereby agrees to pay for those costs and expenses, and indemnify the Lessor for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of Lessor's right to act, including litigation costs, attorneys fees, and the costs and fees for collection of said cost, expense or liability.

10. Release and Indemnity. Lessee hereby agrees to release the Lessor, its officers, agents, successors, and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments, or assessments that may be imposed or obtained by any person, agency, or governmental authority against the Lessee by reason of any hazardous substance that may be present by whatever means on, in or under the leased premises. The Lessee hereby agrees to indemnify, defend with counsel suitable to the Lessor, and hold harmless the Lessor from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the leased premises, the Lessor's ownership of the premises, or this lease, including the presence of any hazardous substance on the leased premises.

11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Lessee shall provide the Lessor with a Bond, or other security satisfactory to Lessor, in the amount of \$100,000.00 to assure removal of any hazardous substances, and the remediation and restoration of the leased premises during the term of, and at the conclusion of the lease so as to comply with the terms of this lease to the satisfaction of the Lessor, and in order to comply with environmental laws. Lessee shall provide written evidence that said Bond or security has been secured by the Lessee, which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.

12. Insurance. Effective at the commencement of this lease, Lessee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii, with limits of indemnity coverage no less than \$1,000,000. Said policy of insurance shall provide coverage for personal injury or damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Lessee. Said policy of insurance shall name the Lessor as an additional insured. Lessee shall provide proof of said insurance satisfactory to the Lessor which shall include, at a minimum, the coverage provided, and the term during which said policy shall be effective.

Excerpt from Standard Revocable Permit

Environmental Compliance - Permittee's Duties

26. SPECIAL TERMS AND CONDITIONS.

ENVIRONMENTAL COMPLIANCE – PERMITTEE'S DUTIES

A. Definitions.

For purposes of this Revocable Permit, Permittee agrees and understands that the following terms shall have the following meanings:

“Environmental Laws” shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

“Hazardous Substance” shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

B. Permittee's Activities and Duties.

30 Compliance with Environmental Laws. Permittee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the premises during the term of this Revocable Permit, and Permittee's occupancy of, and activities on, the premises. This duty shall survive the expiration or termination of this Revocable Permit which means that the Permittee's duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Permittee on the premises after the expiration or termination of this Revocable Permit. Failure of the Permittee to comply with any environmental laws shall constitute a breach of this Revocable Permit for which the State shall be entitled, in its discretion, to terminate this Revocable Permit and take any other action at law or in equity it deems appropriate.

40 Hazardous Substances. Permittee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third

person, on the premises without first obtaining the written consent of the State and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this Revocable Permit.

3. Notice to the State. Permittee shall keep the State fully informed at all times regarding all Environmental law related matters affecting the Permittee or the premises. This duty shall include, without limit to the foregoing duty, providing the State with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the premises and with evidence that the Permittee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Permittee by any federal or state authority or individual which relates in any way to any environmental law or any hazardous substance and the Permittee or the premises. This written notice to the State shall include the Permittee immediately providing the State with copies of all written communications from individuals or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Permittee. At least thirty (30) days prior to termination of this Revocable Permit, or termination of the possession of the premises by Permittee, which ever shall first occur, Permittee shall provide the State with written evidence satisfactory to the State that Permittee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Permittee that relate to the premises.

4. Notice to Authorities. Permittee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty (60) days prior to the termination of this Revocable Permit, or sixty (60) days prior to Permittee's termination of possession of the premises, whichever occurs first, the fact that Permittee intends to vacate the premises and terminate its operations on those premises. Permittee shall allow the agents or representatives of said authorities access to the premises at any and all reasonable times for the purpose of inspecting the premises and taking samples of any material for inspection or testing for compliance with any environmental laws. Permittee shall provide copies of said written notices to the State at the time said notices are provided to said authorities.

70 Disposal/Removal. Except for materials that are lawfully sold in the ordinary course of the Permittee's business and for which the Permittee has obtained all required authorizations from appropriate authorities including the prior written permission of the State to have said substance on the premises, Permittee shall cause any hazardous substances to be removed from the premises for disposal. This duty shall include the transportation of said hazardous substance from the premises solely by duly licensed hazardous substance transporters to duly licensed facilities for final disposal as required by all applicable environmental laws. Permittee shall provide the State with copies of documentary proof, including manifests, receipts or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.

80 Environmental Investigations and Assessments. The Permittee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the premises to determine the presence of any hazardous substance on, in, or under the premises as may be directed from time to time by the State, in its sole discretion, or by any federal or state authority. The extent

and number of any environmental investigations and assessments shall be determined by the State or the federal or state authority directing said investigations and assessments to be conducted. Permittee shall retain a competent and qualified person or entity that is satisfactory to the State or governmental authority, as the case may be, to conduct said investigations and assessments. Permittee shall direct said person or entity to provide the State or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water or other material that may be obtained for testing and provide directly to the State and the governmental authority at the sole expense of the Permittee written results of all tests on said samples upon completion of said testing.

90 Remediation. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the premises, or to have migrated from the premises, Permittee shall, at its sole expense and cost, remediate the premises, or any location off the premises to which it is determined that the hazardous substance has migrated, of any hazardous substances. Said duty to remediate includes the removal and disposal of said hazardous substances in accordance with paragraph 5. This duty to remediate includes strictly complying with all environmental laws and directives to remediate said hazardous substance issued from the State or any federal or State governmental authority charged with enforcing the Environmental laws. This duty to remediate shall include replacement of any materials, such as soils, removed with material that is satisfactory to the State and governmental authority, as the case may be.

:0 Restoration and Surrender of Premises. The Permittee hereby agrees to restore the premises, at its sole cost and expense, including the soil, water and structures on, in, or under the premises, to the same condition as the premises existed at the commencement of this Revocable Permit, fair wear and tear to the structures excepted. In the event Permittee does not restore the premises to the same condition as it existed at the commencement of the Revocable Permit, as determined by the State, the Permittee understands and agrees that the State may exercise its rights under the paragraph entitled State's Right to Act, and until such time as the restoration is complete to the satisfaction of the State, Permittee shall be liable for Revocable Permit rent in the same manner and amount as if the Revocable Permit had continued in effect during the period of restoration.

;0 State's Right to Act. In the event the Permittee fails for any reason to comply with any of its duties under this Revocable Permit or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the State, the State shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Permittee hereby grants access to the premises at all reasonable hours to the State, its agents and anyone designated by the State in order to perform said acts and duties. Any cost, expense or liability of any type that may be incurred by the State in performing said acts or duties shall be the sole responsibility of the Permittee and Permittee hereby agrees to pay for those costs and expenses and indemnify the State for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of State's right to act, including litigation costs, attorneys fees and the costs and fees for collection of said cost, expense or liability.

10. Release and Indemnity. Permittee hereby agrees to release the State, its officers, agents, successors and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments or assessments that may be imposed or

obtained by any person, agency or governmental authority against the State and/or the Permittee by reason of any hazardous substance that may be present by whatever means on, in or under the premises. The Permittee hereby agrees to indemnify, defend with counsel suitable to the State, and hold harmless the State from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the premises, the State's ownership of the premises, or this Revocable Permit, including the presence of any hazardous substance on the premises. Permittee understands and agrees that any assessments, fines or penalties that may be assessed against the Permittee or the State by reason of any environmental law violation concerning the premises shall be paid, complied with, and in every way satisfied by the Permittee and not the State.

11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Permittee shall provide the State with a Bond, or other security satisfactory to State, in the amount of \$ N/A to assure removal of any hazardous substances and the remediation and restoration of the premises during the term of, and at the conclusion of the Revocable Permit so as to comply with the terms of this Revocable Permit to the satisfaction of the State and in order to comply with environmental laws. Permittee shall provide written evidence that said Bond or security has been secured by the Permittee which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.

340 Insurance. Effective at the commencement of this Revocable Permit, Permittee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii with limits of indemnity coverage no less than \$500,000.00. Said policy of insurance shall provide coverage for personal injury and damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Permittee or the State. Said policy of insurance shall name the State as an additional insured. Permittee shall provide proof of said insurance satisfactory to the State which shall include, at a minimum, the coverage provided and the term during which said policy shall be effective.

APPENDIX C

TENANT INVENTORY

Kalaeloa Barber's Point Harbor Tenant Inventory

Lessee	Mailing Address	City and Zip Code	Inspection POC	Phone Number	Lease	Revocable Permit	NPDES Permits
AES Kalaeloa Venture, LLC	91-086 Kaomi Loop	Kapolei, HI 96707	Sabrina Guanio	(808) 682-3412	H-89-14		
GLP Asphalt, LLC	PO Box 78	Honolulu, Hawaii 96810	Sara Thomas	203-2805			
Hawaiian Cement	99-1300 Halawa Valley Road,	Aiea, HI 96701	Dane Wurlitzer	532-3407	H-88-36; H-	H-88-1540	Exempt Mariti
Healy Tibbits Builders, Inc.	99-994 Iwaena Street, Suite A,	Aiea, HI 96701	Glen Toyama	682-6104		H-06-2538;H-92-1783	
Ko Olina Marina, LLC	92-1480 Aliiniui Drive,	Kapolei, HI 96707	Chuck Krause	8083880005	H-89-1		
Marisco, Ltd.	91-607 Malakole Road,	Kapolei, HI 96707	Stephen Hinton	808-306-5935	H-90-10	H-00-2224;H-99-2186;H-96-1901	HI-0021786
McCabe, Hamilton & Renny	P.O. Box 210,	Honolulu, HI 96810	Andrew Souza	808-479-0356		H-99-2160; H-96-1911; H-93-182	
Sause Bros., Inc.	705 North Nimitz Highway, Fl. 2	Honolulu, HI 96817	Wayne Stachel for HNL, M	HNL: (808)306-217			
The Phoenician, LLC	91-573 Malakole Road	Kapolei, HI 96707	John Gomersall	(808) 478-8031	201150200	GP2002-05-0317	HI R20B748
Trouble Free Corp.	P.O. Box 8260,	Honolulu, HI 96830	Chris Boyles	(808) 864-8864		H-03-2422	

APPENDIX D

EXAMPLE TENANT MAILING



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION
79 SOUTH NIMITZ HIGHWAY
HONOLULU, HAWAII 96813-4898

GLENN M. OKIMOTO
DIRECTOR


Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-EE
1592.12

September 28, 2011

TO: HARBORS DIVISION TENANTS

FROM: RANDY GRUNE 
DEPUTY DIRECTOR - HARBORS

SUBJECT: ANNUAL TENANT STORM WATER SELF-INSPECTION FORM AND
NOTIFICATION OF ANNUAL AWARENESS TRAINING

We require that you carefully read, fill-out and return the attached Tenant Self-Inspection (TSI) Form.

The returned TSI Form will provide us essential information about your operational activities and storm water management practices that will aid us to comply with mandated requirements of the Federal Water Pollution Act, commonly referred to as the Clean Water Act (CWA), and State of Hawaii requirements under the Department of Health, Hawaii Administrative Rules (HAR). The regulations are defined in Title 40, Code of Federal Regulations (40 CFR), Parts 122 and 123, and in the HAR, Chapter 11-55. The regulations establish a framework that governs the discharge of storm water runoff into waters of the United States, and could impose penalties of up to \$27,500 per day per violation for non-compliance.

The Harbors Division has obtained coverage from the Department of Health to operate the storm drainage systems which discharge into Honolulu Harbor and Kalaeloa Barbers Point Harbor. The TSI Form is designed to help you and allow us to assess compliance with state and federal regulations, and our discharge permits. The form must be completely filled out and returned by October 31, 2011. Please send the completed TSI Form to the Harbors Division, Attention: Randal Leong, Environmental Engineer, 79 South Nimitz Highway, Honolulu, Hawaii 96813. You may also deliver the form in person to one of the two tenant training meetings detailed below.

We are enclosing three handouts pertaining to matters that all Harbors Division tenants need to be aware of. The three topics addressed are: (1) Washing of equipment and vehicles; (2) Construction of improvements for, on or within your area; and (3) Material Storage Best Management Practices.

We are also notifying you of our third annual mandatory storm water awareness training meetings where we will share information with all of our tenants about the present status of our Storm Water Management Programs established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor

Small Municipal Separate Storm Sewer System (MS4) Permits. We will discuss the history and direction of the programs, how they impact your tenancy with Harbors Division and discuss the contents of the enclosed handouts.

For your convenience, two sessions will be provided for facility owners, environmental managers and/or other representatives of your company at the Honolulu Harbor Pier 2 Passenger Terminal on **October 19 and 20, 2011, from 10:00 am to 12:00 noon, with check-in starting at 9:30 am.** Please send at least one representative from your company to either of the two sessions. Parking is available at the Pier 2 Passenger Terminal parking lot at no charge.

If you have any questions, please contact Mr. Randal Leong, Harbors Environmental Engineer at 587-1962.

Att: Tenant Self-Inspection Form
Handouts (3)

STORMWATER BEST MANAGEMENT PRACTICES



Building and Remodeling

The storm drainage system at our harbor facilities collects rainfall from storm events and releases it directly, without treatment, into the harbor. Sediment is the pollutant of most concern during construction due to the removal of soil cover. Heavy metals and nutrients attach to soil particles that, if allowed to reach the storm drain, degrade water quality. Other items of concern include paints, thinners, mortars and construction rubble/debris.

Implementing Best Management Practices (BMPs) and good housekeeping practices will help maintain water quality in the harbor.

**NOTE: SUBMITTAL OF BUILDING OR REMODELING PLANS TO THE
HDOT HARBORS DIVISION FOR FORMAL APPROVAL IS REQUIRED**

BMP Implementation

Soil Erosion and Sedimentation

- Minimize removal of existing vegetation.
- Reduce traffic on disturbed soils and divert runoff around them.
- Re-vegetate as soon as possible using native seed mix and mulch.
- Frequently sweep soil back from streets and sidewalks.
- Dry sweep paved surfaces rather than hosing down or using blowers.
- Use sediment control devices, including silt fences, inlet protection, diversion ditches, and swales to minimize off-site migration of soil.

Housekeeping During Work

- Properly store and dispose of materials such as paints and solvents.
- Properly contain and dispose of mop water, sweepings, and sediments.
- Use non-toxic substitutes for chemicals when possible.
- Inspect vehicles and equipment for leaks regularly and fix problems as soon as possible.
- Keep a spill kit of absorbent material, such as kitty litter or sand, and safety equipment, such as safety glasses and gloves, in case a spill does occur. Never hose down an area to clean up after a spill.
- Control litter by sweeping and picking up trash on a regular basis.
- Cover dumpsters and replace leaking ones.

Train employees (document) on proper materials storage, handling and spill response responsibilities. Report all spills in accordance with the Hawaii Department of Health's (HDOH) Spill Reporting and Emergency Response requirements found at the link below and document response actions.

<http://hawaii.gov/health/environmental/hazard/spill.html>

The State Department of Transportation, Harbors Division has developed the Storm Water Management Program (SWMP) in compliance with the National Pollutant Discharge Elimination System (NPDES) and the State of Hawaii Municipal Separate Storm Sewer System (MS4) General Permit requirements.

The SWMP is administered by the Environmental Section under the Engineering Branch.

Phone: 808-587-1962

*Website:
<http://hawaii.gov/dot/harbors/library/storm-management-plan>*

Cover it; Clean it; Collect it; Keep our waters Clear!

STORMWATER BEST MANAGEMENT PRACTICES



Outdoor Material Storage

Responsible storage of chemicals, such as paints, solvents, and cleaners can significantly reduce polluted storm water runoff. Containerized products (such as bottles, cans, and drums) and bulk material must be handled properly in all stages of storage, use, and disposal. In many cases, businesses can implement simple housekeeping practices in order to store materials more effectively. Proper storage practices reduce the likelihood of accidental spills or releases of hazardous materials during storm events. In addition, health and safety conditions at the facility will improve.

BMP Implementation

Outdoor material storage should be placed only in designated areas specifically designed to contain spills and prevent contact with storm water. Store liquids in an area where containers cannot be knocked over and releases can be contained.

- Avoid positioning upstream or adjacent to storm drainage features.
- Place bagged materials on pallets and under cover.
- Utilize impervious surfaces and containment devices (e.g., dikes, curbs) to contain possible leaks and prevent storm water run-on/off.
- Store all containers under cover to protect from rain and sun.
- Close and secure any opened containers, and utilize drip pans for dispensing from containers.
- Cover stockpiles with plastic or comparable material when not in use or at the end of each day.
- Provide physical diversion to protect stockpiles from concentrated runoff.
- As necessary, place silt fence, fiber filtration tubes, or straw wattles around stockpiles.

Appropriate spill response procedures, including notification, initial response and follow-up actions, should be developed and posted.

- Keep a spill kit appropriate for the materials in a readily accessible location, stocked, and ready for use (re-stock after each use).
- Clean up spills immediately using absorbent material or containment booms for liquid spills. Immediately sweep up and properly dispose of used absorbent materials.
- Always use dry methods to clean spills (sweeping) and never hose down the spill area.

Periodic inspections should be performed to verify that the conditions of containers, secondary containment devices, and other structural controls are acceptable. Train employees (document) on proper storage, handling and spill response responsibilities. Report all spills in accordance with the Hawaii Department of Health Spill Reporting and Emergency Response requirements (<http://hawaii.gov/health/environmental/hazard/spill.html>).

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Cover it; Clean it; Collect it; Keep our waters Clear!

STORMWATER BEST MANAGEMENT PRACTICES



Vehicle and Equipment Washing

Wash water from vehicle and equipment cleaning activities performed outdoors or in areas where wash water flows onto the ground can generate dry weather runoff contaminated with detergents, heavy metals, oils and greases, toxic substances, sediments, and other pollutants.

Releasing pollutants directly or indirectly into the storm drain system or the harbor by vehicle or equipment washing is a violation of the Harbor Municipal Separate Storm Sewer System (MS4) General Permit. Proper employee training, BMP implementation, and pollution prevention methods are required for compliance with the Harbor's Storm Water Management Program (SWMP).

BMP Implementation

Primary Option: Off-site Washing

Facilities with small fleets should consider contracting with a commercial car wash. Commercial car wash facilities often recycle their water or are required to treat their wash water discharge prior to release into the sanitary sewer system. Pressure cleaning and steam cleaning should be done off-site to avoid generating runoff with high pollutant concentrations.

Secondary Option: On-Site Washing

NOTE: ON-SITE WASHING IS ALLOWED ONLY AFTER WASHING PROCEDURES ARE SUBMITTED TO THE HDOT HARBORS DIVISION FOR FORMAL APPROVAL

Vehicle and equipment washing should be conducted only in designated areas specifically designed to collect and hold generated wash and rinse water.

*"For small jobs, berm the area surrounding the vehicle and use a wet/dry vacuum to capture the wash water for discharge to the sanitary sewer. For larger jobs, use a combination of berms and a vacuum truck, such as those used to clean storm and sanitary sewer systems, to capture and safely dispose of wash water. If detergents are used, clean the pavement to prevent this material from being carried to the storm drain during the next rainstorm."*¹

The contained wash water effluent should be recycled, discharged to the sanitary sewer system (permit may be required) or collected for off-site disposal at a permitted facility. Additionally, designated wash areas should be paved and contained using berms and a sump. Use hose nozzles with automatic shut off and bio-degradable soaps where appropriate. Inspect paved surfaces within the wash area and clean periodically to remove buildup of particulate matter or other pollutants. Vehicle maintenance, chemical storage, and other activities that could release pollutants are prohibited in washing areas. Train employees on proper cleaning, maintenance, and wash water disposal procedures. Documentation of this training should include a list of attendees, the date, the topic covered, and signatures of attendees.

¹ EPA Municipal Vehicle and Equipment Washing BMP Fact Sheet

The State Department of Transportation, Harbors Division has developed the Storm Water Management Program (SWMP) in compliance with the National Pollutant Discharge Elimination System (NPDES) and the State of Hawaii Municipal Separate Storm Sewer System (MS4) General Permit requirements.

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Phone: 808-587-1962

*Website:
<http://hawaii.gov/dot/harbors/library/storm-management-plan>*





Tenant Stormwater Compliance Self Inspection Form

Company Information		
Business Name(s)		
Mailing Address for HDOT Harbors Division Correspondence		
Street Address 1		
Street Address 2		
City, State		
Zip Code		
Point(s) of Contact for Stormwater Compliance		
Telephone Number		
Email Address		
Fax Number		
Tenant Since (month/year)		
Alternate Contact Name		
Facility Information (only facilities on Harbors Division property)		
Harbor(s)	<input type="checkbox"/> Honolulu Harbor <input type="checkbox"/> Kalaeloa Barber's Point Harbor (check all that apply)	
Facility Location(s)	<input type="checkbox"/> Same as above	
(Pier, street address, building, or other directions for visitors)		
Tenant Information		
List Sub-tenants (if applicable)		
EPCRA Section 313 SIC Code		
Lease Number		
Permit Number		
Business Activity Description		
Pollution Prevention Info		
Do you use or store any oil products over 1,320 gallons total (over 24 55-gallon drums or bulk storage. Note: Count only containers over 55 gallons)?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
(If no to above question, skip) Does your site have a SPCC Plan (Spill Prevention Control and Countermeasures) (Regulation-Title 40 CFR, Part 112)? If yes, please attach your current SPCC Plan, approved and certified by a registered Professional Engineer, if you did not submit it previously.	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Do you have a National Pollutant Discharge Elimination System (NPDES) Permit or Notice of General Permit Coverage (NGPC), if so what is the number?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Do you generate any Hazardous Waste? If so identify the waste and provide your EPA Generator Identification Number.	<input type="checkbox"/> YES	<input type="checkbox"/> NO

Pollution Prevention Info (Continued)

What chemicals, which could pollute storm water runoff if released, are presently being stored on-site? (Attach additional sheets as necessary)

Chemical Name	Quantity	Method of Storage	Outdoor / Indoor

Check possible pollutants in storm water from your facility/site. This should include any chemicals that are used, stored, or disposed of in the areas where potential pollutants may come into contact with rainwater and/or water runoff. Also include lubrication oil leaks from service equipment and vehicles.

<input type="checkbox"/> Acid Waste	<input type="checkbox"/> Non-halogenated Solvents*	<input type="checkbox"/> Alkaline Waste	<input type="checkbox"/> Oils and Grease	<input type="checkbox"/> Arsenic
<input type="checkbox"/> Pesticides	<input type="checkbox"/> Cadmium	<input type="checkbox"/> Petroleum Hydrocarbons	<input type="checkbox"/> Chromium	<input type="checkbox"/> PCB's
<input type="checkbox"/> Copper	<input type="checkbox"/> Phenols	<input type="checkbox"/> Cyanide	<input type="checkbox"/> Selenium	<input type="checkbox"/> Halogenated Solvents
<input type="checkbox"/> Silver	<input type="checkbox"/> Herbicides	<input type="checkbox"/> Thallium	<input type="checkbox"/> Mercury	<input type="checkbox"/> Zinc
<input type="checkbox"/> Nickel	<input type="checkbox"/> Lubrication oil leaks	*(see 40 CFR 261.30 for a listing of non-halogenated solvents)		

Are there any other possible pollutants at your facility/site: (Identify them)

Does your facility operate under a Department of Army Permit (Section 401 WQC)?

☐ YES

☐ NO

Are there any other Federal Permits that you are required to submit? If so identify the permits.

Where does your storm water discharge?

Do you have any floors/decks located in chemical storage areas

☐ YES

☐ NO

Do you have to submit SARA III reporting?

☐ YES

☐ NO

Please provide a copy of your facility plans/drawing.

Attach copies of any storm water studies conducted at your facility.

Pollution Prevention Info (Continued)

Non-storm water discharges can be activity-based (subtle) or overt (pipe connections). Activities based non-storm water discharges include, but are not limited to: wash water, diluted solvents/chemicals, floor/dock-apron sweeper waste, and spillage. Typical overt discharges include, but are not limited to: process wastewater, cooling water, and sanitary wastewater.

Any post-construction runoff control measures (such as detention basins and vegetated swales) on tenant premises must be maintained by the occupant as per the tenant lease agreement. These post-construction runoff controls will be identified during annual on site tenant inspections.

Are you aware of any non-storm water discharges or unauthorized connections to storm drains or groundwater surfaces at your facility?

☐ YES☐ NO

If yes, please describe location and nature of discharge.

Are floor drains or deck drains located in the areas of chemical storage or chemical use, present at your facility?

☐ YES☐ NO

If yes, where is the discharge point?

☐ Sanitary sewer☐ Ground surface☐ Unknown**Points of Contact for Water Pollution Reporting**

The responsibility to maintain the cleanliness of Hawaii's coastal water lies with all Harbor tenants and users, and Hawaii residents. We all need to pitch in to anticipate, prevent and report inappropriate discharges. Reports of inappropriate discharges may be made to:

Point of Contact**Telephone Number**

Marine Traffic Control Center

808-587-2076

Marine Cargo Specialist

808-587-2053

City and County of Honolulu Environmental Concern Hotline

808-768-3300

Department of Health, Clean Water Branch

808-586-4309

Coast Guard

1-800-424-8802

Feedback

We want to hear from you on how we can improve this program. Please fill out the comments section below to provide feedback on the information provided and the content of this form.

Did you find the information in this mailing useful?

☐ YES☐ NO

Comments:

APPENDIX E

HARBORS TENANT TRAINING RECORDS

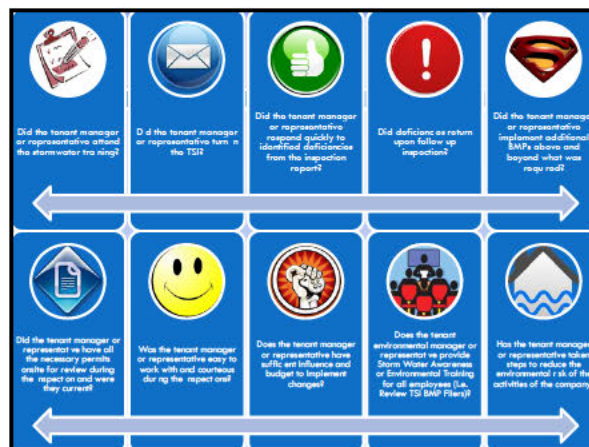


Introduction

- Hawaii Department of Transportation – Harbors Division
 - Randy Grune – Deputy Director
 - Carter Luke PE – Engineering Program Manager
 - Randal Leong PE – Environmental Engineer
 - Jim Galariada – Environmental Health Specialist
- Weston Solutions, Inc.
 - David Johnson
 - Mark Ambler PE, PMP
 - Joe Weidenbach
 - Sandy Peterson
 - Anthony Rodriguez
- Hawaii Department of Health
 - Matthew Kurano

2011 TENANT ENVIRONMENTAL MANAGER OF THE YEAR

for Exemplary Management of a Tenant Stormwater Program Focused on Directing Meaningful Change



2011 TENANT ENVIRONMENTAL MANAGER OF THE YEAR

for Exemplary Management of a Tenant Stormwater Program Focused on Directing Meaningful Change

NATHAN KAPULE

For management of Young Brothers, Ltd.

AGENDA

- Regulatory Background
- Harbors (Small MS4) General Permit Requirements
 - Public Education
 - Public Participation
 - Illicit Discharge Detection and Elimination (IDDE) Program
 - Construction Site Run-Off Control
 - Post Construction Control
- Video Presentation (20 mins) – “Storm Watch”
- Pollution Prevention and Good Housekeeping
- Facility Inspections
- Enforcement Response Program
- Contact Information
- Questions and Answers

FEDERAL REGULATORY BACKGROUND

- Clean Water Act (40 CFR 100-149)
 - 1972 Clean Water Act– Swimmable, Fishable
 - 1987 Amendments – NPDES (National Pollutant Discharge Elimination System) regulations
- NPDES – Environmental Protection Agency Regulatory Authority
 - Phase I issued in 1990 – Individual Permit
 - Industrial Facilities (PENDING MODIFICATION AND RENEWAL)
 - Construction Sites > 5 acres (PENDING MODIFICATION AND RENEWAL)
 - Medium and Large Municipal Separate Storm Sewer System (MS4)
 - Phase II issued in 1999 – General Permit
 - Small MS4
 - Construction Sites > 1 acre, < 5 acres (PENDING MODIFICATION AND RENEWAL)
- MS4 – conveyance that is owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.; designed or used to collect or convey stormwater; and not combined with sewer.



Hawaii Regulatory Background

- NPDES regulatory authority is administered by Hawaii Department of Health
- Hawaii Administrative Rules (HAR)
 - Title 11 Chapter 55 (11-55)
 - Water Pollution Control
 - Appendix K
 - NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Discharges from Small MS4s
- Harbors Division – Notice of General Permit Coverage (NGPC)
 - HI 03KB482 – Honolulu Harbor Permit
 - HI 03KB488 – Kalaheo Barbers Point Harbor Permit



RECENT PROGRAM HISTORY

- HDOT Harbors General Permit – May 19, 2003
- EPA Audit – December 2008
- Finding of Violation – June 18, 2009
- Tenant Inspections – 2009 (44)
- Inspection Reports – 2010
- Stormwater Management Plan Revision – Dec 2009
- Tenant Inspections – 2010 (All)
- Deficiency Letters – 2011

GENERAL PERMIT REQUIREMENTS

Minimum Control Measures

Each Minimum Control Measure Requires:

- Written Plan – SWMP
- BMP Implementation
- Training
- Reporting
- Enforcement

- Public Education & Outreach
- Public Participation & Involvement
- Illicit Discharge Detection & Elimination
- Construction Site Runoff Control
- Post-Construction Runoff Control
- Pollution Prevention & Good Housekeeping

General Permit Allowable Discharges*

- Water Line Flushing
- Landscape Irrigation
- Diverted Stream Flows
- Rising Ground Water
- Uncontaminated Ground Water Infiltration
- Uncontaminated Pumped Ground Water
- Discharges from Potable Water Sources
- Air Conditioning Condensate
- Crawl Space Pumps and Footing Drains
- Dechlorinated Swimming Pool Water
- Discharges from Fire Fighting Activities

* Unless discharges "Cause or contribute to water quality objective exceedances."

UNDERSTANDING POLLUTANT TRANSPORT AND MANAGEMENT STRATEGIES

Understanding the source, vehicle, and route of storm drain pollution is key to cost effectively managing facilities and discharges.



STORM WATER BEST MANAGEMENT PRACTICES

What Are They?

Administrative and structural controls are utilized to

- remove,
- contain, or
- treat pollutants

through

- Source removal,
- Preventative containment, and
- Capture/treatment methods.

- Administrative Controls
 - Laws and ordinances
 - Leases and tenant agreements
 - Inspections
 - Housekeeping
 - Material Handling and Storage Practices
 - Maintenance Schedules
- Structural Controls
 - Secondary Containment
 - Berms
 - Washracks
 - Silt Fencing
 - Exclusion
 - Drain Inlet Protection, etc...

Minimum Control Measure 1 TENANT SELF INSPECTION FORM



Minimum Control Measures 1&2 Public Outreach & Participation

<http://www.state.hi.us/dot/harbor/catu/storm.htm>



Minimum Control Measure 3 Illicit Discharge Detection & Elimination (IDDE) Program

Common sources of illicit discharges include -

- Sewage inflows from leaking sewage collection and transmission lines
- Commercial carwash and laundry wastewater
- Floor washing to shop drains
- Commercial Vehicle and Equipment washwater
- Potable line flushing that runs across hardscapes
- Pumping of vaults or trenches
- Construction activities
- Liquid wastes containing oil, paint, and process water
- Waste water from manufacturing or equipment processes
- Pesticides, herbicides, and other industrial chemicals



Minimum Control Measure 3 IDDE and Outfall Inspections

- Dry Weather Outfall Inspections will be performed to detect illicit discharges into outfalls.
- Dry Weather Flow indicates non-storm water discharges. Tracking these drain systems back to the source is an efficient way to detect illicit.
- Utilize sampling, instruments, and observations to discern ground water vs potable water and presence of nutrients, toxic substances, sediments, bacteria, and general chemistry to "fingerprint" sources for abatement proceedings.

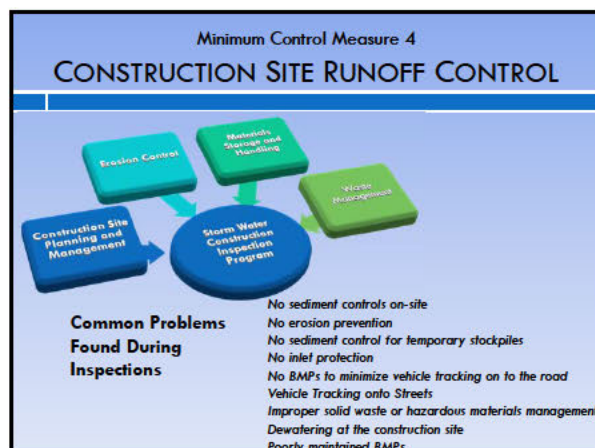
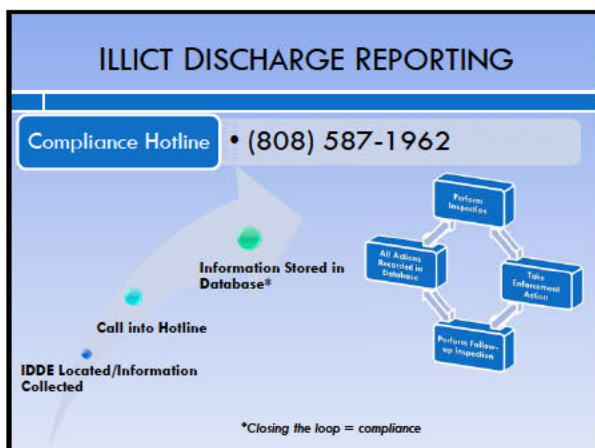


Illicit Discharges Threaten our Waters



REPORT IT!!
587-1962





BUILDING AND REMODELING

- ❑ All construction (even < 1 acre) must receive formal, written approval from HDOT Harbors Division
- ❑ All construction over 1 acre must receive NPDES permit from HDOH prior to breaking ground

Waste Management (Source Control)

Exposed Waste Management
Subject to Rainfall and Birds

Unsecured / Unlocked
Dumpster – Trespassing –
Illegal Dumping

Waste Management

Secured Enclosure – Minimized
Illegal Dumping. Add non-
galvanized corrugated roofing to
prevent rain runoff.

ZERO RUNOFF SOLUTION

Stockpiling (Source Control and Pollution Prevention)

Use Silt Fences to Contain
Stockpiles

Cover Stockpiled Material
*Covers provide dust
suppression and prevent
polluted runoff.

Silt Fencing (Treatment)



Inspection and maintenance of BMP's is as important as installing them. Improperly maintained silt fences are ineffective.

Silt Fencing



Vegetated Swale!!

Storm Drain Inlet Protection (Pollution Prevention)



Storm Drain Inlet Protection



Cleaning Equipment (source control)



Construction Equipment Cleaning



Minimum Control Measure 5 Post-Construction Design Features

Goal: Eliminate and minimize exposure of pollutants to storm water and to capture and infiltrate / treat.



Minimum Control Measure 5 Post-Construction Controls

Considering water quality impacts early in the design process can provide long-term water quality benefits and lower administrative environmental management costs.

Retrofits you can use to manage your site:

- ❑ Low-Impact Development
- ❑ Green Design
- ❑ Site Specific/Innovative BMPs
- ❑ Infiltration
- ❑ Filtration
- ❑ Retention/Detention
- ❑ Isolation/Separation of Runoff from Processes

Eliminating Curbs and Gutters
Green Parking
Green Roofs
Rain Barrels / Cisterns
Protection of Natural Features
Urban Forestry
Grassed Swales
Infiltration Basin/Trench
Permeable Pavement
Porous Asphalt Pavement
Vegetated Filter Strip
Dry Detention Ponds
Storm Water Wetland

Minimum Control Measure 5 LOW-IMPACT DEVELOPMENT

- ❑ Significant Redevelopment = 5,000 ft²
- ❑ Report → Change in Peak Flow

TABLE 2-1 Sample Results Table for Change in Peak Runoff Flow Rate

Location	C ₁	C ₂	I (in/hr)	A (ft ²)	Q _p (cfs)
Porous Pavement Parking Lot	0.20	0.25	2.0	80,150	29.7
Vegetated Bio-Swales Surrounding Parking Lot	0.20	0.10	2.0	12,000	-7.9
Greenroof on Adjacent Storage Warehouse	1.0	0.10	2.0	1,000	-5.9
TOTAL CHANGE IN PEAK RUNOFF FLOW:					15.9

- ❑ List BMPs
 - ❑ Bio-swale
 - ❑ Rain Barrels
 - ❑ Smart Irrigation
 - ❑ Etc.

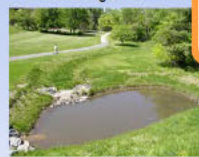
Minimum Control Measure 5 Post-Construction Structural Controls



Drainage Swales



Green Roofs



Storm Water Retention Ponds

Minimum Control Measure 6 Pollution Prevention & Good Housekeeping

VIDEO Presentation

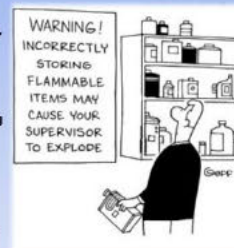
"Storm Watch"

Municipal Stormwater Pollution Prevention
EXCAL Visual Communications



Pollution Prevention & Good Housekeeping

- ❑ Inventory of Activities and Potential Pollutants
- ❑ Proper Labeling and Handling of Cleaners, Solvents, and Chemicals
- ❑ Organized Chemical Storage
- ❑ Responsible Disposal of Chemicals
- ❑ Storage Procedures should include covering stored metals
- ❑ Proper site drainage should be in place
- ❑ Proper Equipment/Material Storage
- ❑ Timely Equipment O&M
- ❑ Site maintenance and cleaning procedures should be in place. They should address environmental considerations and they should include BMP's



Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

Stocked metals should be covered to prevent heavy metal intrusion into waterways

Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

All drums should be in good, working condition. Inspections should be held regularly and any drums with damage should be replaced immediately.

Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

Access to chemicals should be restricted to personnel trained in proper handling and disposal procedures; all must be labeled and have MSDS available

Flammable chemicals, solvents, and paints should be stored in a fireproof locker. Chemicals must be separated by compatibility

Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

Do not overfill

Trash bin kept covered when not in use

Keep trash and debris from accumulating around the bin, because storm water will carry it out to the ocean

NEW PROGRAM
VEHICLE AND EQUIPMENT WASHING

For small jobs, berm the area surrounding the vehicle and use a wet/dry vacuum to capture the wash water for discharge to the sanitary sewer. For larger jobs, use a combination of berms and a vacuum truck, such as those used to clean storm and sanitary sewer systems, to capture and safely dispose of wash water. If detergents are used, clean the pavement to prevent this material from being carried to the storm drain during the next rainstorm.¹

¹ EPA Municipal Vehicle and Equipment Washing BMP Fact Sheet

Submit This for Approval:

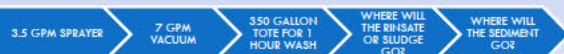
- What are you Washing?
- Pressure Sprayer Flow Rate
- Vacuum Rate
- Berm/Drain Map
- Container Capacity
- Waste Disposal Plan

... Then Have This Onsite:

- Wet Vacuum
- Berm
- Proper Containment
- Proper Waste Disposal

VEHICLE AND EQUIPMENT WASHING

- Formal, written approval
- Contain Wash Water
- NO Wash Water → Storm Drain
- Example: 3.5 GPM Spray → 7 GPM Vacuum
- Enough storage for job?
- Proper transport and disposal
- Is the rinsate staying onsite?



Vehicle and Equipment Washing (Pollution Prevention)



Vehicle and Equipment Washing (Pollution Prevention)



No grinding,
painting,
welding, or
sand blasting

Containment and
Collection is
required!

Vehicle and Equipment Washing



Permitted Vehicle Wash Rack



Temporary Only: Wash
water and debris
require off-site disposal;
Minimize detergents and
overspray



Spill Prevention and Response

- PREVENTION FIRST!!
- Proper Storage
 - ▣ Secondary Containment
 - ▣ Protected from equipment damage
 - ▣ Install shut-off controls, overflow protection, etc...
 - ▣ Stored away from storm drains
- Proper filling and handling procedures
 - ▣ Use drip pans
 - ▣ Use drop cloths

Control

Contain

Capture

Spill Prevention and Response

SPILL RESPONSE

- Assess the Spill
 - ▣ What Spilled
 - ▣ How Much Spilled
 - ▣ Where did it Spill; Surface Water Impacted?
 - ▣ Toxic or Hazardous Substance?
- Stop the release
- Contain the Spill
- Clean the Spill
- Properly Dispose of Materials
- Report All Spills
 - ▣ Small Spills should be tracked internally
 - ▣ Large Spills
 - Harbors Environmental
 - Hawaii Department of Health
 - U.S. Coast Guard



Secondary Containment



Secondary Containment



Secondary Containment (Pollution Prevention)

- Keep locked to prevent unwanted discharge
- If excess storm water collects, inspect for sheen and/or test storm water to determine whether there are contaminants present



- If no contaminants present, supervise and document discharge of clean storm water and relock valve

Spill Prevention and Response



Best Management Practices – Vehicle Pans/Pads



Best Management Practices – Spill Kit



Best Management Practices – Trench Drain



Best Management Practices – Equipment Wash Area



Best Management Practices – Covered Metal Bin



Best Management Practices – Rain Barrel

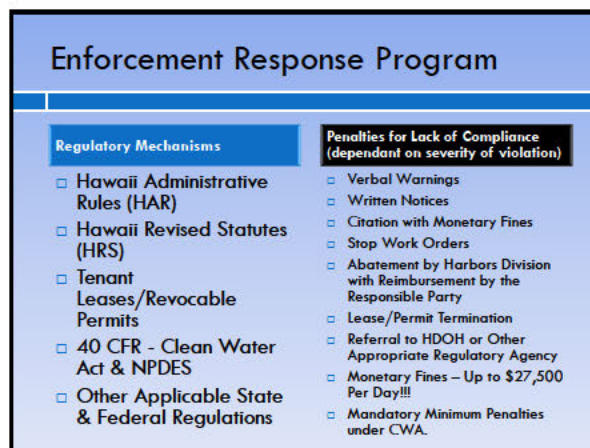
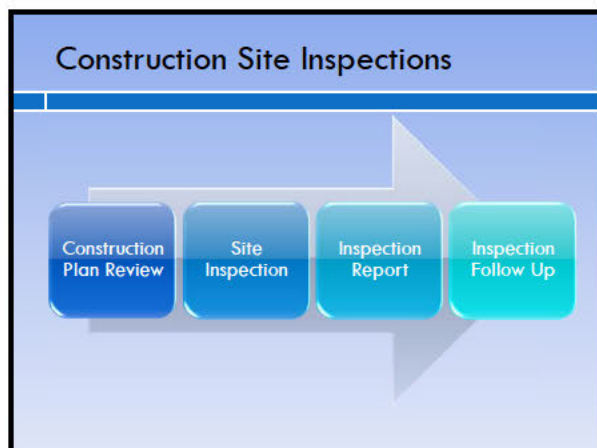
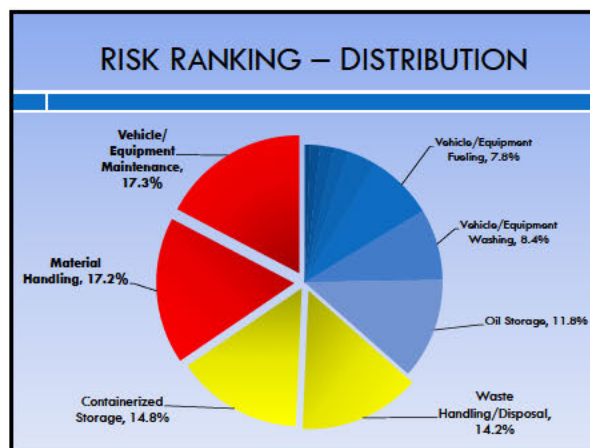
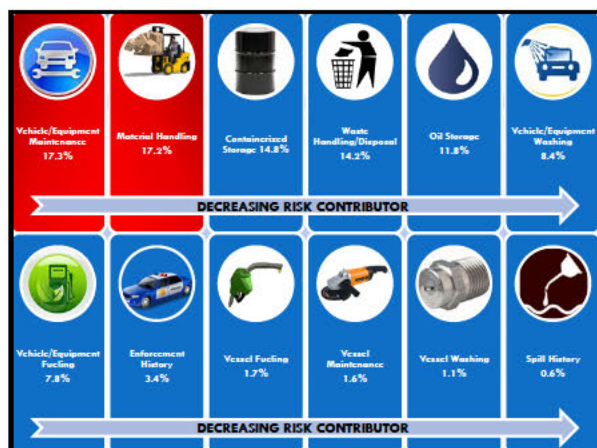


Tenant Facility Inspections

- 1 week notification
- High Priority Tenants First, then ALL TENANTS
- Inspection Checklist
- Inspection Report and Findings to be provided following Site Visits
- Follow-up Inspections will be scheduled if required
- SERIOUS VIOLATIONS WILL RESULT IN IMMEDIATE ACTION
 - Depending on the severity of the discharge, regulatory actions may be pursued.
 - All inspection results and actions will be added to our database.
- Risk ranking developed based on findings

FACILITY INSPECTIONS





STORM WATER CONTACTS

FIRST CALL HARBORS HOTLINE

- Harbors Hotline @ (808) 587-1962

DISCHARGES

- ☐ Marine Traffic Control Unit @ (808) 587-2076

SERIOUS OFFENSES

- ❑ **Hawaii Department of Health, Clean Water Branch @ (808) 586-4309**
- ❑ **U.S. Coast Guard @ (800) 424-8802**
- ❑ **USEPA @ (808) 541-2721**



REMOVE! CONTAIN! TREAT!
KEEP OUR WATERS CLEAN.....

QUESTIONS OR COMMENTS?



A single tin of paint can contaminate millions of gallons of water!

References

- <http://megibz/wp-content/uploads/2009/04/oil-runoff-into-storm-drain.jpg>
- http://www.octopuscarwash.com/IMG_0014.jpg
- <http://www.californiagreensolutions.com/images/Parker-powerwash328.jpg>
- <http://s3.images.com/huge70.351214.JPG>
- http://www.pneac.org/stormwater/pg_stockpiles.cfm
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- http://images.google.com/imgres?imgurl=http://www.aquahotwash.com/pw_commercial/IMG009/APG8imga4uruf1=http://www.aquahotwash.com/pw_commercial.html&img=G40D0915EF2Jw3WzGjJb0=8h-4218w-640&oe=368h&start=71&m=1&btnid=5F9QJUAARGrxGM-&btn=90&btn=137&pr=1&img=353Dpressure28washing%26grasose%26ndsp%26pic1&btn=26%26dn%26dn%3Dh%26start%3D54426m%3D1
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- <http://cache1.cash-cash.net/en/74877867.jpg?v=1&c=W5A&w=&h=2&d=17A4AD9FD89CF193395A77F763D9CD7BE336CAA8630F003A7CF8100D846C25>
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- http://images.google.com/imgres?imgurl=http://www.courier-journal.com/blog/burrgers/uploaded_images/DAY_0610SH/UDOWN_06_MS-728F83.jpg&imgrefurl=http://www.courier-journal.com/blog/burrgers/2007_06_01_archive.html&img=D_yw9RdUZFDa91m89C6c9nR8l=&h=1067&w=1600&oe=377&ht=&st=1&um=1&tmd=EQW9FP548j29M&st=100&tmw=150&prev=/images%2Fq%3Dcanetvut+rt%2Bpollution%26images%3D%26img%26%3D%26%3Durl%26um%3D1

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Fax: 808-585-7378

HDOT HARBORS STORMWATER MANAGEMENT TENANT TRAINING October 19, 2011



SIGN-IN SHEET

COMPANY	PRINT NAME	SIGNATURE	PHONE/EMAIL	VOLUNTEER FOR CLEAN-UP?
HAWAII STEVEDORES	KEN CHUNGA	<i>Ken Chunga</i>	808-927-2740	
ROCK DEVELOPMENT OF CENTRAL PACIFIC DIST.	ISLANDER ARTHUR ROY PAUL	<i>Arthur Roy</i>	478-5840 848-0787	
Aloha Cargo Transport	Tracy Fujikawa	<i>Tracy Fujikawa</i>	808-748-7895	
Harbors/Kalaeloa	Logan Williams IV	<i>Logan Williams IV</i>	682-6428	
IF MARINE	POUL FUKUNAGA	<i>Poul Fukunaga</i>	842-1330	✓
Asphalt Hawaii	Aaron Stewart	<i>Aaron Stewart</i>	343-5229	
WINDWARD MARINE SERVICES	GREG LOMILO	<i>Greg Lomilo</i>	808-545-6100	✓
R.S. NAKAMURA WELDING	RODNEY NAKAMURA	<i>Rodney Nakamura</i>	228 2551	
MILLER INDUSTRIES	RODNEY NAKAMURA	<i>Rodney Nakamura</i>	848 0855	
ALUMINUM SHAKE DEAN J. HANCOCK USA SHIN WOO CORPORATION	RODNEY NAKAMURA DAVID CHANG	<i>Rodney Nakamura</i> <i>David Chang</i>	847 8885 853-1122 / todavischan@yahoo.com	
Robert Marcos Inc	Mark Gaulke	<i>Mark Gaulke</i>	864-1703 / rmi.markg@aol.com	
POP VISION & MARKING	ADOLEN WALSTON	<i>Adolen Walston</i>	478-8997	
Performance Landscapers	Mariko Ziv	<i>Mariko Ziv</i>	232-8988	
Honolulu Marathon	Ronald Chen	<i>Ronald Chen</i>	2552602 jchen@hawaii.com	
P&R Water Treat	Ralph Dewitt	<i>Ralph Dewitt</i>	554-3436	
AKANA TRUCKING	Ralph Pacheco	<i>Ralph Pacheco</i>	845-9825	

00000

VOLUNTEER FOR CLEAN-UP?

COMPANY

PRINT NAME

SIGNATURE

PHONE/EMAIL

Meadow Gold Danes

Byron Furraro

[Signature]

PHONE/EMAIL
808-944-5978

Jayson - Jayson's Green Foods, Conn.

Pasha Hawaii

Trevor Kubo

20

prev = 2018-03-10

294-3165
trevor-kubo@pashqnet.com

Bella Dietta

David Donaldson

James J. [Signature]

587-7779

S87-777d divided by 110

Harbors Division

Neal Miyasato

587-2007

587-2007 neal.h.miv@atohawaii.gov

Israel Davison

Toy wheels

22

58 832-3845

58-832-3845

Young Brothers Ltd

Nathan Kazile

McLispelle 5

539398/nkapule

439398/nkapule	Yes
----------------	-----

inkapule@hitburb.com

7

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HDOT HARBORS STORMWATER MANAGEMENT TENANT TRAINING October 19, 2011



SIGN-IN SHEET

COMPANY	PRINT NAME	SIGNATURE	PHONE/EMAIL	VOLUNTEER FOR CLEAN-UP?
HARDY CONST	Melvin Blumedy		226-5343	
Phoenix LLC	Greg Powell		226-8575	
Friends at Hukua	Say Dewsett		256-1241	
HAAJALEE INC	Trend Yang		841-8687	
HONOLULU LINES	HANK KOZVARSIC		804-4638	
Steinke Bros. inc	Robert Steinke		478-9777	
ANA SHOP SERVICE	POORNEY TANAMOTO		478-8732	
HAWAIIAN ICE CO.	MARSHALL JOY		538-6918 marshall@hawaii-ice.com	
"	RUNNETTE HAMADA		"	
P&R Water Taxi	Steve Morita		388-4958	
Robert Marcos Inc	Robert Marcos		841-1123	
Sun Chong	Patrick Lam		383-1756 lampatrick109@gmail.com	
Jas. W. Glover, LTD	KEOLA GAO		841-0368 keelag@gloverhd.com	
Sause Bros	Wayne Stachel		306-7177 waynes@sause.com	
KANO TRUCKING	Layne Kano		216-9474 / kano@kano-trucking.com	
Amazun Const. Co. Inc.	Dustin Onaga		841-6999	
Meadows Gold Dairies	Darrel Taylone		944-5958 darrel-taylone@cleanfood.com	
STATE OF HAWAII HAWAII	MICHAEL K. FEELY		822-3845 michael.k.feely@HA-DESIGN.COM	

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HDOT HARBORS STORMWATER MANAGEMENT TENANT TRAINING October 20, 2011



SIGN-IN SHEET

COMPANY	PRINT NAME	SIGNATURE	PHONE/EMAIL	VOLUNTEER FOR CLEAN-UP?
Pioneer Machinery	Rodney T. Yee		808-311-4892	
HAR DOT OCG	Vandy Sibounheuang		808-537-2310	
Tropical JS, Inc.	Charis Cabral		808-848-0888	
HUB/YES	ANOR LAN		73-734 / claucktay.com	
Pacific Shipyard's Inc	Wes Aalsai		2213916 / wansai@pacificshipyards.com	
Island Movers, Inc.	Patrick Hee		839-1120 / pathe.hawtree.net	
HCAP Head Start	Phil B. Sales		847-24 00	
Matson	Enriqueta Tanaka		848-1241 etanaka@matson.com	
y. taha & Co., Ltd.	Attilio K. Leonard		447-4333 aleonard@y.taha.com	
NANAKULI HOUSING	WILBERT BARBER		306-3526	
HCAP	Alfred B. Remo		398-5074	
RCR Const.	Kevin Close		841-4574	
Custom-Bilt Metals	Mandy Fowler		845-1800	
Lt. Tommy medeiros	Harbor Police		368-5995	

VOLUNTEER FOR CLEAN-UP?

PHONE/EMAIL

SIGNATURE

PRINT NAME

COMPANY

Weston Solutions, Inc

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808-275-2900
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HDOT HARBORS STORMWATER MANAGEMENT TENANT TRAINING October 20, 2011



SIGN-IN SHEET

COMPANY	PRINT NAME	SIGNATURE	PHONE/EMAIL	VOLUNTEER FOR CLEAN-UP?
Clean Island Council	PATRICK GILLEN	<i>Patrick Gilen</i>	957 907 1505	
Matson Navigation	Keahi Barchi	<i>Keahi Barchi</i>	848-1252 kbirchmatson.com	
FAST WEST MEDIA	BELZ BARRAMENGO	<i>BELZ BARRAMENGO</i>	753-7164	
Marisco Ltd.	Brett Houseman	<i>Brett Houseman</i>	864-1171 / bhouseman@marisco.net	
QUICK MOVE	EUGENE FONTANILLA	<i>EUGENE FONTANILLA</i>	285-4785	
THE CUSTOM COMPANY	CAROLINE PASCUA	<i>CAROLINE PASCUA</i>	841-4411	
Pacific Shipyard Int.	Jennifer Haight	<i>Jennifer Haight</i>	484 825 4807	
HEAD HeadStart	Manny Galarza	<i>Manny Galarza</i>	271 2921	yes
" "	Edward Chen	<i>Edward Chen</i>	" "	yes
Sea Engineering	TOR HARRIS	<i>TOR HARRIS</i>	(623) 978-6800 tharris@seaengr.com	
DOT / Harbor	DON KAUSLANDER	<i>DON KAUSLANDER</i>	832 3845	
Pon's Concrete Spreaders	James Mainaunui	<i>James Mainaunui</i>	808) 845-0467 jmainaunui@transworld.com	
Control Tech LLC	Paulina Haysashi	<i>Paulina Haysashi</i>	(808) 847-7490 / etechllc@aol.net	
Hi-Tec Roofing	Cynthia Zeller	<i>Cynthia Zeller</i>	841-7403 gahitec@aol.com	
DOT - ITXSONS	KEN MURAKAMI	<i>KEN MURAKAMI</i>	587-2070 alan.murakami@hawaii.gov	
THE SussEx Co	Tony SussEx	<i>Tony SussEx</i>	537-3001 Tony SussEx@GMAIL.com	
THE Pops Club	Tony SussEx	<i>Tony SussEx</i>	537-3001 TONY SussEx@GMAIL.com	

APPENDIX F

TENANT ENVIRONMENTAL MANAGER OF THE YEAR AWARD



EXECUTIVE CHAMBERS

HONOLULU

NEIL ABERCROMBIE
GOVERNOR

October 19, 2011

Mr. Nathan Kapule
Safety and Environmental Manager
Young Brothers, Ltd.
P. O. Box 3288
Honolulu, Hawaii 96801-3288

Dear Mr. Kapule:

I am pleased to present you with our first annual Department of Transportation Harbors Division Tenant Environmental Manager of the Year Award.

The Harbors Division will annually recognize an outstanding Tenant Environmental Manager that implements meaningful change in their facility environmental practices and company environmental culture. I laud your efforts as a leader in implementing environmental policies for your company.

Your environmental program was chosen from 44 tenant programs that were evaluated during the annual Storm Water Compliance inspections in 2009 and 2010. The award represents the positive contributions you and your company have made toward protecting our valuable ocean resources. The changes and programs implemented at your facility and your valuable influence in making environmental awareness a key component of your company culture is genuinely appreciated. Your program is a model for similar facilities and an example for others to follow as they improve their environmental systems.

Please continue to work with the Harbors Division and all Harbors Division tenants in keeping our ocean resources clean and ensuring its protection for future generations.

Sincerely,

A handwritten signature in dark ink that reads "Neil Abercrombie". The signature is fluid and cursive, with the first name "Neil" and last name "Abercrombie" clearly distinguishable.

NEIL ABERCROMBIE
Governor, State of Hawaii



THE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

presents the

2011 TENANT ENVIRONMENTAL MANAGER OF THE YEAR
to

NATHAN KAPULE

for

Exemplary Management of a Tenant Stormwater Program Focused on Directing
Meaningful Change

CATEGORY A

APPENDIX G

STORMWATER HOTLINE OCCURRENCE TRACKING FORM

**Stormwater Hotline Occurrence Tracking (SHOT) Form**

LINE ITEM	FORM FIELD
Caller Information	
Caller Name	
Caller Company	
Telephone Number	
Email Address	
Date/Time Received	
Occurrence Information	
<input type="checkbox"/> Information Request	<input type="checkbox"/> Discharge Reporting <input type="checkbox"/> Complaint <input type="checkbox"/> Commendation
<input type="checkbox"/> Information Request	
Information Requested	
Actions Taken	
Additional Information	
<input type="checkbox"/> Discharge Reporting	
Address or Location of Discharge	
Time/Date of Discharge	
Substance/Amount Discharged (if known)	
Media into which the discharge occurred: <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Natural Ground <input type="checkbox"/> Concrete/Asphalt <input type="checkbox"/> Stream <input type="checkbox"/> Ocean Other: _____	
Responsible Party (if known)	
Cause of Discharge (if known)	
Clean-up Actions Taken (if applicable)	
Notifications Made/Actions Taken by Harbors Division	
Follow Information	

LINE ITEM	FORM FIELD
<input type="checkbox"/> Complaint	
Nature of Complaint	
Complaint Details	
Notifications Made/Actions Taken by Harbors Division	
<input type="checkbox"/> Commendation	
Commendation Details	
Notifications Made/Actions Taken by Harbors Division	
Points of Contact for Immediate Response	
In the event of an emergency needing immediate response, call the numbers listed below:	
Point of Contact	Telephone Number
Marine Traffic Control Center	808-587-2076
Marine Cargo Specialist	808-587-2053
City and County of Honolulu Environmental Concern Hotline	808-768-3300
Department of Health, Clean Water Branch	808-586-4309
Coast Guard	1-800-424-8802

APPENDIX H

HONOLULU MARINE TRAFFIC CONTROL TOWER REPORTS

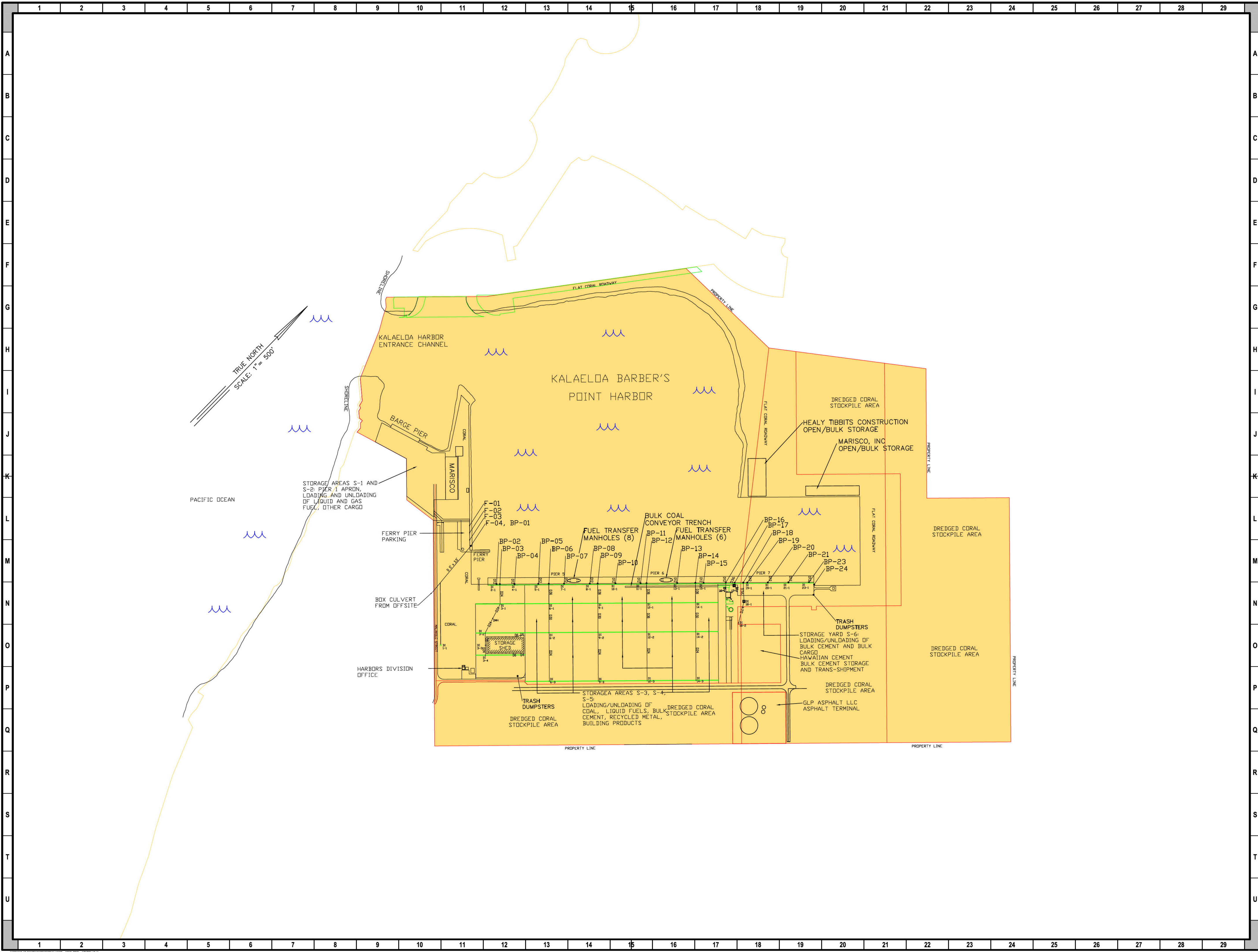


Hawaii Department of Transportation – Harbors Division
Annual Compliance Report Summary of Tower Logs
Kalaeloa Barber’s Point Harbor, 2011

Date	Time	Action Taken
1/5/2011	2107	BPH SEC DENISE RPTS CEMENT DUST ALL OVER THE BPH AREA COMING FROM VSL OCEAN SUNRISE AT P7 - U1 NFYD (WILL CALL THE AGENT) U1 RPTS BRUCE OF WNLI WAS NFYD TO INFORM THE CAPT OF THE VSL OCEAN SUNRISE TO CEASE DUSTY OPERATIONS
1/7/2011	916	PILOT #9 ON BOARD INBOUND VESL EPSON TRADER II INTO BP-6 NTFD TWR THAT THERE IS AN UNIDENTIFIED SUBSTANCE IN THE WATER LEADING FROM KO'OLINA OUT OF THE CHANNEL RUNNING ALONG THE SHORELINE WEST OF THE BP CHANNEL. TWR LEFT A MSG FOR HAR-OCB.
1/7/2011	942	HAR-OCB NTFD TWR THAT HE CONTACTED BRUCE WITH KO'OLINA WHO RECEIVED NO REPORT OF THE SUBSTANCE. HAR-OCB WILL INVESTIGATE AND NTFY THE TWR.
1/7/2011	1020	HAR-OCB NTFD TWR THAT SUBSTANCE IN THE WATER @ BPH IS RUN OFF FROM ALL THE RAIN WE'VE BEEN HAVING, AND THERE IS NO OIL IN THE WATER.
1/28/2011	1726	BPH SECURITY REPT A LARGE HYDRAULIC SPILL AT THE PHOENICIAN BOAT RAMP. THEY HAVE IT BLOCKED OFF TO PREVENT ANY FROM ENTERING THE WATER. IT WAS CAUSED BY HAWAIIAN RECYCLING & THEY ARE IN THE PROCESS OF CLEANING IT UP. HAR-OC, U3, DAVID (FSO), PO MATHENY (USCG), KILO 3 ALL NTFD LEFT MESSAGE FOR LOGAN (BPH) TO CALL TOWER

APPENDIX I

UPDATED SMALL MS4 OUTFALL MAP



ENGINEER/ARCHITECT SEAL

Kalaeloa Harbor Storm Water Drainage and Outfalls

Hawaii DOT Harbors Division Storm Water Management Program
Hawaii Department of Transportation – Harbors Division



INSTRUMENT DATA SHEET			
BY DEED STREET DATE ON RECORD 1/1/1998 1/1/1998 1/1/1998			
DATE	DATE	CONTRACT NO.	
DATE BY	DATE	DATE ORDER NUMBER	
DATE	DATE	DESCRIPTION OF ORDER	

APPENDIX J

OUTFALL RECONNAISSANCE INVENTORY REPORTS

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: <u>BP-01</u>	
Today's date: <u>12/16/14</u>		Time (Military): <u>1420</u>	
Investigators: <u>AR SW</u>		Form completed by: <u>VR</u>	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: <u>2357 934</u>	Longitude: <u>659 1612</u>	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #: <u>2004</u>		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input checked="" type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>6 ft x 1.5 ft</u>	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	<u>0'</u> "	Ft, In	
	Measured length	<u>0'</u> "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-02	
Today's date: 12/16/11		Time (Military): 1412	
Investigators: 1/2 SW		Form completed by: 1/2	
Temperature (°F):	Rainfall (in.):	Last 24 hours: 0	Last 48 hours: 0
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #: 2001		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 2 struts from BP-03			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-03	
Today's date: 12/16/11		Time (Military): 1410	
Investigators: AK JW		Form completed by: AK	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 2066	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 6 stubs from BP-04			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 24	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-04	
Today's date: 12/16/11		Time (Military): 1408	
Investigators: Ar JW		Form completed by: Ar	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #s: 1999		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 8 struts from BP-05			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	Q' "	Ft, In	
	Measured length	Q' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-05	
Today's date: 12/16/11		Time (Military):	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #s: 1998		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			
3 Struts from BP-05			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely
 ☐ Potential (presence of two or more indicators)
 ☐ Suspect (one or more indicators with a severity of 3)
 ☐ Obvious

Section 7: Any Non-Mlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-06	
Today's date: 12/16/11		Time (Military): 1402	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1997	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 8 struts from BP-07			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36"	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oil <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Mlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-07	
Today's date: 12/18/11		Time (Military): 1358	
Investigators: AR TW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1996	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			
10 starts from BP-08 ; 2-12" within 20 ft			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Only <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-08	
Today's date: 12/16/11		Time (Military): 1354	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #s: 1995		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 4 struts from BP-09			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-09	
Today's date: 12/16/11		Time (Military): 1352	
Investigators: RJ JW		Form completed by: RJ	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #s: 1999		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 8 stubs from BP-10			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oil <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-10	
Today's date: 12/16/11		Time (Military): 1350	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #s: 1993		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			
10 strbs from BP-11			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP	<input checked="" type="checkbox"/> Circular	<input checked="" type="checkbox"/> Single	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> PVC <input type="checkbox"/> HDPE	<input type="checkbox"/> Elliptical	<input type="checkbox"/> Double		
	<input type="checkbox"/> Steel	<input type="checkbox"/> Box	<input type="checkbox"/> Triple		
	<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____		
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-11	
Today's date: 12/16/11		Time (Military): 1344	
Investigators: AR JW		Form completed by: R	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #: 1992		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 2 Struts			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-12	
Today's date: 12/16/11		Time (Military): 1343	
Investigators: Ar JW		Form completed by: Ar	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 3 struts from BP-27			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36"	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-13	
Today's date: 12/16/11		Time (Military): 1336	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #s: 1988		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 7 struts from BP-14			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely
 ☐ Potential (presence of two or more indicators)
 ☐ Suspect (one or more indicators with a severity of 3)
 ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-14	
Today's date: 12/16/11		Time (Military): 1834	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #: 1987		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>36"</u>	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	Q' "	Ft, In	
	Measured length	Q' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-15	
Today's date: 12/16/11		Time (Military): 1321	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1985	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 2 Struts from BP-16			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <div style="text-align: center; font-size: 1.5em;">12</div>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BB-16	
Today's date: 12/16/11		Time (Military): 1320	
Investigators: AZ JW		Form completed by: AZ	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1984	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 3 stubs from BB-17			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <div style="text-align: center; font-size: 1.5em;">12</div>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely
 ☐ Potential (presence of two or more indicators)
 ☐ Suspect (one or more indicators with a severity of 3)
 ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-17	
Today's date: 12/16/11		Time (Military): 1316	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1983	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			
4 Struts from BP-18			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36"	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-18	
Today's date: 12/16/11		Time (Military): 1314	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1982	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 1 start from BP-19			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36"	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☐ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-19	
Today's date: 12/16/11		Time (Military): 1312	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #: 1981		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 3 Starts from BP-20			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☐ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Mitigating Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-20	
Today's date: 12/16/11		Time (Military):	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1980	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 5 struts from BP-21			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Mitig Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP -21	
Today's date: 12/16/11		Time (Military): 1308	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1979	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 8 stutz from BP-22			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Mlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-22	
Today's date: 12/16/11		Time (Military): 1306	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #s: 1978		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. <div style="text-align: center; font-size: 1.2em; font-family: cursive;">7 ft away from BP-23</div>			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <div style="text-align: center; font-size: 1.2em;">12"</div>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BQ-23	
Today's date: 12/16/11		Time (Military): 1305	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #: 1977	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			
Shuts 22 ft apart 8 struts from BQ-24			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCPC <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <div style="text-align: center; font-size: 1.5em;">12"</div>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely
 ☐ Potential (presence of two or more indicators)
 ☐ Suspect (one or more indicators with a severity of 3)
 ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-24	
Today's date: 12/14/11		Time (Military): 1300	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #s: 1976	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			
Structs are 22' apart			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-14 25	
Today's date: 12/16/11		Time (Military): 132 1330	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #s: 1986		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			
Possible we missed - 3 stubs left of 36" BP-14			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some: indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some: origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oil <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Millicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-12 26	
Today's date: 12/16/14		Time (Military): 1338	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #: 1989	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 3 stwb som BP-14			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12" In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-27	
Today's date: 12/16/11		Time (Military): 1340	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-	Photo #: 1990		
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. 5 Struts from BP-26			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 12"	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion	<input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:		sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited		
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:		
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:		

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Mitigat Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: <u>BP-28</u>	
Today's date: <u>12/16/11</u>		Time (Military): <u>1415</u>	
Investigators: <u>JR JW</u>		Form completed by: <u>JR</u>	
Temperature (°F):	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #: <u>2002</u>	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic. <u>2 sticks from BP-02</u>			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input checked="" type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>12"</u>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> Open drainage <input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____		
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	<u>0'</u> "	Ft, In	
	Measured length	<u>0'</u> "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Highly likely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Subwatershed:		Outfall ID: BP-29	
Today's date: 12/16/11		Time (Military): 1426	
Investigators: AR JW		Form completed by: AR	
Temperature (°F):	Rainfall (in.):	Last 24 hours: 0	Last 48 hours: 0
Latitude: 2357925	Longitude: 0591622	GPS Unit:	GPS LMK #:
Camera: Nikon-		Photo #: 2005	
Land Use in Drainage Area (Check all that apply):			
<input checked="" type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): large crabs, Minnows, vegetation along canal is sparse, trash on side of canal, paper and plastic.			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 18" _____ _____	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious <input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)	

Notes: Potential tidal influence due to low tide

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	sediment and algae
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

☒ Unlikely
 ☐ Potential (presence of two or more indicators)
 ☐ Suspect (one or more indicators with a severity of 3)
 ☐ Obvious

Section 7: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

APPENDIX K

HARBORS GROUND MAINTENANCE SPILL CLEANUP LOG

MONTHLY SPILL LOG

JANUARY 2011

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

NO OIL SPILLS FOR JANUARY 2011

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR OF HARBOUR

DOT/HARBOR DIVISION/STATE OF HAWAII

MONTHLY SPILL LOG

February 2011

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

NO OIL SPILLS FOR FEBRUARY 2011

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR OF HAR/OCG
DOT/HARBORS DIVISION/STATE OF HAWAII

MONTHLY SPILL LOG

March 2011

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
3/23/2011	oil	1/2 gallon	unkown	no		<p>pier 37 time; 7:35am</p> <p>spill coming from refuse container. cleaned spill with oil pads, 4-u degreaser & oil dust. clean up crew mac, ken, nelson (refuse crew).</p>

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II OF DOT/HARBOR DIVISION /OCG
STATE OF HAWAII

MONTHLY SPILL LOG

APRIL 2011

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

NO SPILLS FOR THE MONTH OF APRIL 2011

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II
DEPARTMENT OF TRANSPORTATION
HARBOR DIVISION
STATE OF HAWAII
SANITATION AND GROUNDS UNITS



MAY 2011

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

NO OIL SPILLS TO REPORT FOR THE MONTH OF MAY 2011

DON KAULEINAMOKU , MAINTENANCE AND REPAIR SUPERVISOR II, DOT/HARBOR DIVISION/ HAR OCG
STATE OF HAWAII

JUNE 2011

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
6/8/2011	OIL	1/2 gal. gallon	unkown	no		PARK GANG LABOR CREW CLEANED OIL SPILL THAT WAS DISCOVERED COMING OUT OF REFUSE CONTAINER.
6/22/2011	paint	1/4 gal.	unkown	no		UESD 4-U DEGREASER, WATER, OIL PADS & DUST ABSORBENT. PIER 18 GANG
6/22/2011	paint	1/4 gallon	unkown	no		sweeper crew cleaned paint spill at pier 18 with 4-u degreaser water, pads & oil dust.

MONTHLY SPILL LOG

July 2011

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
7/5/11	OIL MIX WITH WATER	6"x3'	UNKNOWN	NO		OIL & WATER MIX WAS FOUND UNDER REFUSE CONTAINER AT PIER 37. REFUSE CREW NOTIFIED SUPERVISOR AND PROCEEDED TO CLEAN THE SPILL. REFUSE CREW AND THE GENERAL LABOR CREW WHO MET THE REFUSE CREW CLEANED PIER 37 USED 1 1/2 GALLONS OF DEGREASER WITH WATER, 24 OIL PADS AND 1/2 BAG OF OIL SPONGE. SPILL WAS REPORTED AT 0652 HRS AND AREA WAS SECURED AT 0719 HOURS
7/5/11	OIL SPILL	1'x1'	UNKNOWN	NO		OIL WAS FOUND ON THE GROUND NEXT TO A REFUSE CONTAINER AT PIER 36. LABORERS NOTIFIED SUPERVISOR AND PROCEEDED TO CLEAN THE AREA. LABOR CREW USED 3 OIL PADS, 1/4 GALLON DEGREASER WITH WATER AND 1/6 OF A BAG OF OIL SPONGE. SPILL WAS REPORTED AT 0650 AND AREA WAS SECURED AT 0700 HOURS
7/27/2011	oil spill	1/2 gln.	unkown	no		labor crew report pier 36 time 12:15pm oil coming out from benneth refuse container. cleaned spill with 4u degreaser water oil pads & oil dust absorbent.

Don Kauleinamoku MAINTENANCE AND REPAIR SUPERVISOR FOR THE MONTH OF JULY 2011
 STATE OF HAWAII/DOT/HARBOR DIVISION/SANITATION AND GROUND UNITS

MONTHLY SPILL LOG

August 2011

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individual's Involved
8/15/011	oil	1 quart	HSI STEVEDORE	N		on 8/15/2011 at 9:10am labor cleaned oil spill at pier 2 makai shed possible came from forklift. materials used: 4-u degreaser, water, oil pads, dust absorbent.

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II

FOR THE MONTH OF AUGUST 2011

STATE OF HAWAII/DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/SANITATION AND GROUND UNITS

SEPTEMBER 2011

[illegible]

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II FOR THE MONTH OF SEPTEMBER 2011
STATE OF HAWAII/DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/SANITATION AND GROUND UNITS

OCTOBER 2011

[illegible]

MONTHLY SPILL LOG

November 2011

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
11/16	oil	1/2gal.	unkown	no		pier 36 oil containment center at 6:45am labor crew report oil coming from underside of cont.center.cleaned with 4-u, water,powder & pads.

December 2011

[illegible]

APPENDIX L

HARBORS EMPLOYEE TRAINING RECORDS

Suite 2301
841 Bishop Street
Honolulu, HI 96813
808-275-2900
Fax: 808-585-7378

**HDOT HARBORS
STORMWATER GENERAL AWARENESS
EMPLOYEE TRAINING
MAY 27, 2011**



SIGN-IN SHEET

AFFILIATION

PRINT NAME

SIGNATURE

EMAIL

Weston
→ facts of H1 Harbors.

Mark Ambler
Elmer Hirano

Am. Trust

mark.amble@westonsolutions.com
elmer.hirano@hawaii.gov

X

State of Hi Harbors
DOT/HARBORS
DOT Harbors
DOT Harbors - Sub

Tommy medeiros
Bill Davis
Ray Auker
John Todd

n/m
 B. K. Davis
 J. M. M.
 J. F. Holt

Thomas P. Medeiros @ hawaii.gov
Bill Davis @ hawaii.gov
Ray Aung @ hawaii.gov
John Tost @ hawaii.gov

DOT HARBORS - Ops Supr
DOT HARBORC - Security
DOT HARBORS - PM

ALAN MURAKAMI
DAVID LEE
ERIC LEONG

James
W. [unclear]
[unclear]
[unclear]

alan.murakami@hawaii.gov
DAVID L. LEE@HAWAII.GOV
eric.leong@hawaii.gov

APPENDIX M

WATER POLLUTION PREVENTION SPECIFICATIONS

ARTICLE XXX – TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL

XXX.XX Description. This section is required for all work and describes the following:

- (A) A detailed site-specific Best Management Practices (BMP) Plan including diagrams and narratives; constructing, maintaining, and repairing temporary water pollution, dust, and erosion control measures at the project site including local material sources, work areas and access roads; removing and disposing of wastes and hazardous wastes; and control of fugitive dust (defined as uncontrolled emission of solid airborne particulate matter from any source other than combustion). For projects that require a National Pollutant Discharge Elimination System (NPDES) Appendix C General Permit from the Department of Health (DOH), the Site-Specific Construction Best Management Practices (SSCBMP) Plan required for the permit shall satisfy this requirement.
- (B) Compliance with applicable State and Federal permit conditions.
- (C) Work associated with dewatering and hydrotesting activities and compliance with conditions of the NPDES general permit coverage authorizing discharges associated with construction activity dewatering and hydrotesting.

Requirements of this section also apply to the Contractor's storage sites.

XXX.XX Materials. Materials shall conform to the following:

- (A) **Slope Drains.** Slope drains may be constructed of pipe, fiber, mats, erosion control fabric, geotextiles, rubble, portland cement concrete, bituminous concrete, plastic sheets, or other materials acceptable to the Engineer.
- (B) **Grass.** Grass shall be quick growing species such as rye grass, Italian grass, or cereal grasses. Grass shall be suitable to the area and provide a temporary cover that will not compete later with permanent cover. Alternative grasses are allowable if acceptable to the Engineer.
- (C) **Fertilizer and Soil Conditions.** Fertilizer and soil conditioners shall be a standard commercial grade acceptable to the Engineer.
- (D) **Silt Fences.** Silt fences shall be synthetic filter fabric mounted on posts and embedded in compacted ground in accordance with contract documents, and shall be in compliance with ASTM D6462, Standard Practice for Silt Fence Installation.

(E) **Berms.** Berms shall be gravel or sand wrapped with geotextile material. Alternate materials are allowable if acceptable to the Engineer.

Alternate materials or methods to control, prevent, remove and dispose of pollution are allowable if acceptable to the Engineer.

XXX.XX Construction.

(A) **Preconstruction Requirements.**

(1) **Water Pollution, Dust, and Erosion Control Meeting.** The contractor shall be required to submit a site-specific BMP plan to the Engineer and address all comments by the Engineer. After the site-specific BMP plan is accepted in writing by the Engineer, the Contractor shall schedule a meeting with the Engineer 14 days before the start of construction work to discuss the sequence of work, and plans and proposals for water pollution, dust, and erosion control.

(2) **Water Pollution, Dust, and Erosion Control Submittals.** The Contractor shall submit the following site-specific BMP plan for approval by the Engineer prior to the start of work:

(a) Written site-specific BMP plan shall include the following:

1. Identification of potential pollutants and their sources.
2. A list of all material and heavy equipment to be used during construction.
3. Descriptions of the methods and devices used to minimize the discharge of pollutants into State waters and drainage systems.
4. Description of maintenance and subsequent removal of any erosion or siltation control devices
5. Method(s) of removal and disposal of solid and hazardous wastes encountered or generated during construction.
6. Method(s) of removing and disposing concrete and asphalt pavement cutting slurry, concrete curing water, and hydrodemolition water.

7. Method(s) of containing, removing and disposing of demolition dust and debris to minimize the discharge of pollutants into State waters and drainage systems.

8. Spill kit contents and location.

9. Fugitive dust control, including dust from grinding, sweeping, or brooming off operations or combination thereof.

10. Method(s) of storing and handling of hazardous materials (i.e. oils, paints, etc.) and other products used for the project.

11. Method(s) of concrete washout/waste control.

12. Good housekeeping practices.

a. Minimize tracking of sediment offsite from project entrances and exits.

b. Litter management.

13. Other factors that may cause water pollution, dust and erosion.

(b) Provide plan(s)/drawing(s) showing location of:

1. Water pollution, dust and erosion control devices.

2. Material storage and handling areas, and other staging areas.

3. Storage of aggregate (indicate types of aggregate), asphalt cold mix, soil and waste.

4. Concrete truck washouts.

5. Toilet facilities.

6. Fueling and maintenance of vehicles and other equipment.

7. Areas of soil disturbance in cut and fill.

8. Areas of vegetative practices to be implemented.

9. Drainage patterns; including a separate drawing for each phase of construction that alters drainage patterns.

- (c) Provide details of BMP to be installed or utilized.
- (d) Indicate approximate date when BMP will be installed and removed.
- (e) Construction schedule.
- (f) Name(s) of specific individual(s) designated responsible for water pollution, dust and erosion controls on the project site. Include home, business and cellular telephone numbers, fax numbers and e-mail addresses.
- (g) Description of fill material to be used.

The Contractor shall date and sign the site-specific BMP plan. Keep an accepted copy on site throughout the duration of the project. Revisions to the plan shall be included with the original plan. Modify contract documents to conform to revisions. Include actual date of installation and removal of BMP. Obtain written acceptance by the Engineer before revising BMP.

The Contractor shall follow guidelines in the “Best Management Practices Manual for Construction Sites in Honolulu,” in developing, installing, and maintaining BMP for the project. Follow City and County of Honolulu Soil Erosion Guidelines for all projects on Oahu. Use respective Soil Erosion Guidelines for Maui, Kauai and Hawaii County projects. Information can be found at the respective County websites.

(B) Construction Requirements. No work shall be allowed to begin until submittals detailed in Subsection XXX.XX(A)(2) – Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Engineer.

For projects that require an NPDES Appendix C General Permit from the DOH, furnish and install a rain gage in a secure location to monitor rainfall at the project site. Provide the rain gage with a tolerance of at least 0.05 inches of rainfall, and an opening of at least 1-inch diameter. Install rain gage on project site in an area that will not deter rainfall from entering the gage opening. Maintain the rain gage and replace the gage if stolen, it does not function properly or accurately, is worn out, or needs to be relocated. Do not begin field work until the rain gage is installed and the site-specific BMP are in place.

Address all comments received from the Engineer.

Modify and resubmit plans and construction schedules to correct conditions that develop during construction which were unforeseen during the design and pre-construction stages.

Coordinate temporary control provisions with permanent control features throughout the construction and post-construction period.

BMP shall be in place and operational at the end of the workday.

Install and maintain either or both stabilized construction entrances and wheel washes to minimize tracking of dirt and mud onto roadways. Restrict traffic to stabilized construction areas only. Clean dirt, mud, or other material tracked onto the road immediately. Modify stabilized construction entrances to prevent mud from being tracked onto roadways.

Chemicals may be used as soil stabilizers for either or both erosion and dust control if acceptable to the Engineer.

Cover exposed surface of materials completely with tarpaulin or similar device when transporting aggregate, soil, excavated material or material that may be a source of fugitive dust.

Cleanup and remove any pollutant that can be attributed to the Contractor.

Install or modify BMP due to change in the Contractor's means and methods, or for omitted condition that should have been allowed for in the accepted site-specific BMP plan or a BMP that replaces an accepted site-specific BMP that is not satisfactorily performing.

Properly maintain BMP. For projects that require an NPDES Appendix C General Permit from the DOH, inspect, prepare a written report and make repairs to BMP. Maintain records of BMP inspections for the duration of the project. Submit copies of the inspection reports to the Engineer upon request. Inspections shall be made at the following intervals:

- (1) Weekly during dry periods.
- (2) Within 24 hours of any rainfall of 0.5 inches or greater which occurs in a 24-hour period.
- (3) Daily during periods of prolonged rainfall.

- (4) When existing erosion control measures are damaged or not operating properly as required by the site-specific BMP plan.

Remove, replace or relocate any BMP that must be removed, replaced or relocated due to potential or actual flooding, or potential danger or damage to the project or public.

The Contractor's designated representative specified in Subsection XXX.XX(A)(2)(f) shall address any BMP concerns brought up by the Engineer within 24 hours of notification, including weekends and holidays. Should the Contractor fail to satisfactorily address these concerns, the Engineer reserves the right to employ outside assistance or use the Engineer's own labor forces to provide necessary corrective measures. The Engineer will charge the Contractor such incurred costs plus any associated project engineering costs. The Engineer will make appropriate deductions from the Contractor's monthly progress estimate. Failure to apply BMP shall result in either or both the establishment and increase in the amount of retainage due to unsatisfactory progress or withholding of monthly progress payment. Continued failure to apply BMP may result in one or more of the following: the Contractor being fully responsible for all additional costs incurred by the State, suspension of the Contract, or cancellation of the Contract.

(C) Hydrotesting Activities. If work includes removing, relocation or installing waterlines, and the Contractor elects to flush waterline or discharge hydrotesting effluent into State waters or drainage systems, obtain a Notice of General Permit Coverage (NGPC) authorizing discharges associated with hydrotesting waters from the DOH Clean Water Branch (CWB). If a permit is required, prepare and submit permit application (CWB-Notice of Intent (NOI) Form F) to the DOH CWB.

Do not begin hydrotesting activities until the DOH CWB has issued a NGPC. Hydrotesting operations shall be in accordance with conditions in the NGPC. Submit a copy of the NPDES Hydrotesting Waters Application and Permit to the Engineer.

(D) Dewatering Activities. If excavation or backfilling operations require dewatering, and the Contractor elects to discharge dewatering effluent into State waters or existing drainage systems, obtain a NGPC authorizing discharges associated with construction activity dewatering from the DOH CWB. If a permit is required, prepare and submit permit application (CWB-NOI Form G) to the DOH CWB.

Do not begin dewatering activities until the DOH-CWB has issued a NGPC. Conduct dewatering operations in accordance with the conditions in the NGPC. Submit a copy of the NPDES Dewatering Application and Permit to the Engineer.

XXX.XX Measurement.

(A) Installation, maintenance, monitoring, and removal of the BMP will be paid on a lump sum basis. Measurement for payment will not apply.

(B) The Engineer will only measure additional water pollution, dust and erosion control required and requested by the Engineer on a force account basis in accordance with Subsection 109.06 -- Force Account Provisions and Compensation of the *Hawaii Standard Specifications for Road and Bridge Construction, 2005*.

XXX.XX Payment. The Engineer will pay for accepted pay items listed below at contract price per pay unit, as shown in the proposed schedule. Payment will be full compensation for work prescribed in this section and contract documents.

The Engineer will pay for the following pay item when included in the proposed schedule:

Pay Item	Pay Unit
Installation, Maintenance, Monitoring, and Removal of BMP	Lump Sum

No progress payment will be authorized until the Engineer accepts in writing the site-specific BMP plan or when the Contractor fails to maintain the project site in accordance with the accepted BMP plan.

The Contractor shall reimburse the State within 30-days for the full amount of all outstanding costs incurred by the State for all citations or fines received as a result of the Contractor's non-compliance with regulations.

APPENDIX N

HARBORS CONSTRUCTION INSPECTION REPORTS

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Perimeter Fencing at Honolulu and Kalaeloa Barbers Point NGPC No. N/A
 Project No.: H. C. 10239 12:12pm
 Contractor: Mocon Corporation sunny
 Verified By: Joe Cheng *JC* Date: 02/22/11
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None					

Notes/Actions:

Pier 39 Fence modification. No ground disturbance anticipated in this project.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicle or equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No vehicle or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle or equipment maintenance on site.
Material Storage	N/A	No material storage on site.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Perimeter Fencing at Honolulu and Kalaheo Barbers Point NGPC No. N/A
 Project No.: H. C. 10239 11:17am
 Contractor: Mocon Corporation sunny
 Verified By: Joe Cheng *JC* Date: 03/10/11
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None					

Notes/Actions:

Pier 1 Fence modification. No ground disturbance anticipated in this project.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	

CONTRACTOR ACTIVITIES


Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicle or equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No vehicle or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle or equipment maintenance on site.
Material Storage	N/A	No material storage on site.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Perimeter Fencing at Honolulu and Kalaeloa Barbers Point NGPC No. N/A
 Project No.: H. C. 10239 02:30pm
 Contractor: Mocon Corporation sunny
 Verified By: Joe Cheng  Date: 03/22/11
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None					

Notes/Actions:

New Post Holes - Dirt removed from site as holes are being drilled.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
None				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	

CONTRACTOR ACTIVITIES

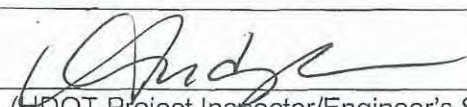
Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicle or equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No vehicle or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle or equipment maintenance on site.
Material Storage	N/A	No material storage on site.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Repair Bollards at Piers 31-33, Honolulu Harbor NGPC No. N/A
 Project No.: HC 10423 10:15AM
 Contractor: Integrated Construction, Inc. SUNNY
 Verified By:  Date: 04/21/2011
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A					No ground disturbance.

Notes/Actions:

Project started on 4/19/11. Subcontractor is on site to core the pier deck while general contractor is removing the bollards.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	Yes	Vacuum is on site and actively being used to suck up slurry.
Dust Control	Yes	Using vacuum is on site.
Dewatering	N/A	No dewatering activity involved today.

CONTRACTOR ACTIVITIES

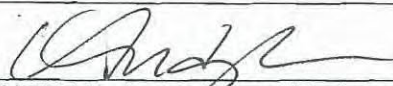
Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day. Told contractor to clean up debris at the end of each day.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Repair Bollards at Piers 31-33, Honolulu Harbor NGPC No. N/A
 Project No.: HC 10423 12:50PM
 Contractor: Integrated Construction, Inc. SUNNY
 Verified By:  Date: 05/2/2011
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A					No ground disturbance.

Notes/Actions:

Subcontractor is on site to core the pier deck while general contractor is removing the bollards.

Inspected by Joe Cheng.

To be performed by:  on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	Yes	Vacuum is on site and actively being used to suck up slurry.
Dust Control	Yes	Using vacuum is on site.
Dewatering	N/A	No dewatering activity involved today.

CONTRACTOR ACTIVITIES

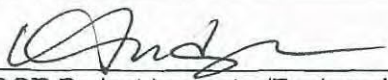
Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day. Told contractor to clean up debris at the end of each day.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Repair Bollards at Piers 31-33, Honolulu Harbor NGPC No. N/A
 Project No.: HC 10423 10:30AM
 Contractor: Integrated Construction, Inc. CLOUDY
 Verified By:  Date: 12/9/2011
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A					No ground disturbance.

Notes/Actions:

Contractor resumed work on 12/8/11 since the work stopped around May 2011.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting today.
Dust Control	Yes	Boards are used to fill the expansion gap to catch debris.
Dewatering	N/A	No dewatering activity involved today.

CONTRACTOR ACTIVITIES


Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day. Told contractor to clean up debris at the end of each day.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Repair Bollards at Piers 31-33, Honolulu Harbor NGPC No. N/A
 Project No.: HC 10423 9:00AM
 Contractor: Integrated Construction, Inc. CLOUDY
 Verified By:  Date: 12/28/2011
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A					No ground disturbance.

Notes/Actions:

Final inspection on 12/28/11.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting today.
Dust Control	N/A	No dust created today.
Dewatering	N/A	No dewatering activity involved today.

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	No materials stored on site.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	N/A	

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: EMBANKMENT REPAIRS AT KALAELOA BARBERS PT. HARBOR NGPC No. WQC 0000780
 Project No.: HC 10414 12:00 PM
 Contractor: HAWAIIAN DREDGING CONSTRUCTION CO., INC. SUNNY
 Verified By: RODNEY YAMANE *[Signature]* Date: 02/02/11
 (HDOT Project Inspector/Engineer's Signature) -02/03/11

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
CRANE DEPLOYMENT ZONE	01/31/11		STRAW WATTLES	ACKNOWLEDGED	WATTLES EMPLOYED AROUND THE PERIMETER

Notes/Actions:

CRANE USED TO DRIVE SHEET PILES INTO PLACE

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				NO DRAIN INLETS PRESENT

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
NONE				N/A

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
NONE				N/A

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting		N/A
Dust Control		N/A
Dewatering		N/A

CONTRACTOR ACTIVITIES


Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	ACKNOWLEDGED	SET UP IN STORAGE AREA, PLASTIC POOLS
Vehicle/Equipment Fueling	ACKNOWLEDGED	DRIP PANS EMPLOYED, SPILL KIT ON HAND
Vehicle/Equipment Cleaning	N/A	NO EQUIPMENT CLEANING ON SITE
Vehicle/Equipment Maintenance	N/A	NO EQUIPMENT MAINTENANCE ON SITE
Material Storage	ACKNOWLEDGED	STOCKPILED IN STORAGE AREA, SILT FENCE ERECTED
Spill Prevention/Control	ACKNOWLEDGED	SPILL KIT PRESENT
Waste Storage/Disposal	ACKNOWLEDGED	ALL CONSTRUCTION DEBRIS REMOVED FROM SITE DAILY/ NO WASTE STORAGE

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: EMBANKMENT REPAIRS AT KALAELOA BARBERS PT. HARBOR NGPC No. WQC 0000780
 Project No.: HC 10414 10:00AM
 Contractor: HAWAIIAN DREDGING CONSTRUCTION CO., INC. HAZY - VOG
 Verified By: RODNEY YAMANE  Date: 2/16/11
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
CRANE DEPLOYMENT ZONE	01/31/11		STRAW WATTLES	ACKNOWLEDGED	WATTLES EMPLOYED AROUND THE PERIMETER

Notes/Actions:

CRANE USED TO DRIVE SHEET PILES INTO PLACE - CRANE REMOVED 2/8/11.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				NO DRAIN INLETS PRESENT

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting		NONE
Dust Control		NONE
Dewatering		NONE
IN WATER CONSTRUCTION(SHEET PILES)	ACKNOWLEDGED	SILT CURTAIN EMPLOYED

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	ACKNOWLEDGED	SET UP IN STORAGE AREA(PLASTIC POOLS)
Vehicle/Equipment Fueling	ACKNOWLEDGED	DRIP PANS EMPLOYED, SPILL KIT ON HAND
Vehicle/Equipment Cleaning	N/A	NO EQUIPMENT CLEANING ON SITE
Vehicle/Equipment Maintenance	N/A	NO EQUIPMENT MAINTENANCE ON SITE
Material Storage	ACKNOWLEDGED	STOCKPILED IN STORAGE AREA, SILT FENCE ERECTED
Spill Prevention/Control	ACKNOWLEDGED	SPILL KIT PRESENT
Waste Storage/Disposal	ACKNOWLEDGED	ALL CONSTRUCTION DEBRIS REMOVED FROM SITE DAILY/ NO WASTE STORAGE

APPENDIX O

HARBORS CONSTRUCTION PLAN REVIEWER/INSPECTOR TRAINING

RECORDS



INTRODUCTION


- Hawaii Department of Transportation – Harbors Division
 - Engineering Branch
- Weston Solutions, Inc.
 - Mr. David Johnson
 - Mr. Mark Ambler PE/PMP

AGENDA

- Regulatory Background
- Small MS4 General Permit Requirements
- DOT-HARBORS Construction Program
- Construction Site Stormwater Runoff Control
 - Plan Review
 - Site Inspections and Video
 - BMPs for Construction Sites in Hawaii
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Contact Information
- Question/Comments


REGULATORY BACKGROUND - FEDERAL

- Clean Water Act (40 CFR 100-149)
 - 1972 Clean Water Act– Swimmable, Fishable
 - 1987 Amendments – NPDES (National Pollution Discharge Elimination System) regulations
- Effluent Limitation Guidelines and Standards for the Construction and Development Point Source Category (40 CFR 450)
- NPDES – Environmental Protection Agency Regulatory Authority
 - Phase I issued in 1990 – Individual Permit
 - Industrial Facilities
 - Construction Sites > 5 acres
 - Medium and Large Municipal Separate Storm Sewer System (MS4)
 - Phase II issued in 1999 – General Permit
 - Small MS4
 - Construction Sites > 1 acre < 5 acres
- MS4 – conveyance that is owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.; designed or used to collect or convey stormwater; and not combined with sewer.



REGULATORY BACKGROUND - HAWAII

- NPDES regulatory authority is issued to Hawaii Department of Health by the EPA
- Hawaii Administrative Rules (HAR)
 - Title 11 Chapter 55 (11-55)
 - Water Pollution Control
 - **Appendix C**
 - Storm Water Associated with Construction Activity
 - **Appendix K**
 - NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Discharges from Small MS4s
- Harbors Division – Notice of General Permit Coverage (NGPC)
 - HI 03KB482 – Administratively extended in October 2007
 - HI 03KB488 – Administratively extended in October 2007



INTENT OF NPDES PROGRAM

- NPDES ensures that Non-Storm Water Discharges (NSWDs) are NOT allowed into the ocean
- Exceptions:

SMALL MS4 GENERAL PERMIT REQUIREMENTS

Minimum Control Measures

- ☐ Public Education & Outreach
- ☐ Public Participation & Involvement
- ☐ Illicit Discharge Detection & Elimination
- ☐ **Construction Site Runoff Control**
- ☐ **Post-Construction Runoff Control**
- ☐ Pollution Prevention & Good Housekeeping

CONSTRUCTION SITE RUNOFF CONTROL

- ☐ Defined in Section 5.0 of the Storm Water Management Plan
- ☐ The purpose is to prevent construction projects from polluting storm water during and after construction
- ☐ The program includes:
 - ☐ Plan Review
 - ☐ Site Inspections
 - ☐ Enforcement
 - ☐ Reporting
 - ☐ Educational Outreach

Where Do Construction Projects Originate?



CONSTRUCTION DISCHARGE PERMIT

- ☐ Construction site operators must submit a CWB-NOI Form when a construction activity results in the disturbance of greater or equal to 1 acre (includes base yard)
- ☐ The form must be submitted at least 30 calendar days prior to construction
- ☐ Both the General Form and the Site Specific Construction BMP Plan must be filled out and \$500 filing fee submitted
 - ☐ See handouts for SSCBMP (2/15/2011)

<http://dpswll.com/Health/Environment/Storm/Construction/Forms/ConsIndex.html>

CWB-NOI GENERAL FORMS

- ☐ Construction Site Runoff Control Plan:
- ☐ Plan Review
- ☐ Site Inspections
- ☐ Enforcement Actions
- ☐ Reporting
- ☐ Educational Outreach
- ☐ Owner information
- ☐ Owner Type
- ☐ Operator Information
- ☐ Facility/Project Information
- ☐ List of Receiving Waters
- ☐ Authorized Representatives

<http://dpswll.com/Health/Environment/Storm/Construction/Forms/ConsIndex.html>

CWB-NOI SSCBMP PLAN

- ☐ Construction Site Runoff Control Plan:
- ☐ Plan Review
- ☐ Site Inspections
- ☐ Enforcement Actions
- ☐ Reporting
- ☐ Educational Outreach
- ☐ Project Dates
- ☐ Certification
- ☐ Owner Information
- ☐ Contractor Information
- ☐ Facility Information
- ☐ Receiving Waters
- ☐ Drain System
- ☐ Existing Pollution Sources (Site History)
- ☐ Site Disturbance Calculations
- ☐ Storm Water Flow Estimates
- ☐ Construction Phasing
- ☐ Maps and Plans

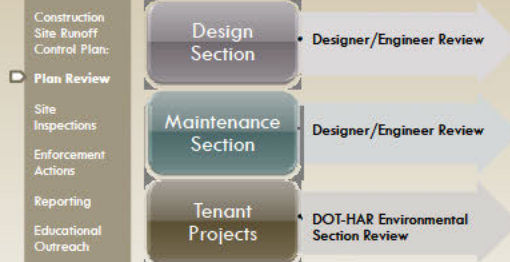
<http://dpswll.com/Health/Environment/Storm/Construction/Forms/ConsIndex.html>

CWB-NOI SSCBMP PLAN (cont.)

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- ☐ Storm Water Flow Chart
 - ☐ Planned Construction BMPs
 - ☐ Maps and Plans
 - ☐ Training
 - ☐ Project Schedule
 - ☐ NPDES Inspection Schedule
 - ☐ Contingency Plan
 - ☐ BMP Specification Sheets
 - ☐ Post-Construction Pollution Control Measures

<http://ctbweb.org/npdes/Environmental/Construction/Forms/Construction.html>

Who Reviews the Stormwater Plans?



<http://ctbweb.org/npdes/stormwater/manufacture/index.cfm?section=brochure&button=detail&page=111&nlsize=4>

EMS Manual as a Tool for Plan Review

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- ☐ Harbors' Environmental Management System Manual Appendix H Contains tools for managing internal and tenant construction activities
 - ☐ Plan Review checklist
 - ☐ Plan Amendment and Review Form



Site-Specific Compliance, BMP, Pollution Prevention Plan Review Checklist

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- ☐ For review of Construction Plan and NOI Forms
 - ☐ Designers & Engineers
 - ☐ No grading or site work will commence until Harbors has verified that regulations are met
 - ☐ Filed in the project design file and a copy sent to DOT-HAR Environmental Section



Site-Specific Compliance, BMP, Pollution Prevention Plan Amendment Review Form

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- ☐ For amendment of Construction Plan and NOI Forms
 - ☐ Responsibility depends on phase of process
 - ☐ Planning
 - ☐ Construction
 - ☐ Post-Construction Controls
 - ☐ No grading or site work will commence until Harbors has verified that regs are met.
 - ☐ File with Review Checklist

NON-NPDES Project Plan Review

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- ☐ Projects Less than 1 Acre
 - ☐ Maintenance Projects
 - ☐ Tenant Projects
 - ☐ Other?
 - ☐ To Be Developed
 - ☐ BMP Manual
 - ☐ SWPPP Template
 - ☐ Plan Review Form
 - ☐ Site Inspection Form

USEPA: 10 ELEMENTS OF AN EFFECTIVE REVIEW



<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&button=data1&bmp=116&ntmeasure=4>

CONSTRUCTION SITE INSPECTION TOOLS



- Appendix G: Inspection and Enforcement Manual
- Section 5.0 Inspection Procedures
- Appendix H: Construction Program
- Inspection and Maintenance Report Form
- HDOH-CWB SSCBMP Plan
- Inspection Checklist

Construction Site Inspections

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Construction Site Inspections are dictated by *Harbors EMS Manual Appendices G & H*
 - Inspections will occur after approval of plans to ensure that BMPs have been installed and maintained
 - Contractor will not be allowed to begin grading or site work until Harbors has documented inspection.
 - Inspections will continue throughout the life of the project.
 - Rainy season (Oct-Apr): every two weeks
 - Dry Season (May-Sept): every two months

Inspector Roles and Responsibilities

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Professional Responsibility – Show common courtesy toward facility personnel by
 - Scheduling inspections ahead of time
 - Giving a courtesy call at least 20 minutes before inspection
 - Asking permission to take photos
 - Providing introductions and credentials
 - Providing facility with copy of findings
 - Thanking facility personnel

Inspector Roles and Responsibilities

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Safety Responsibility – Protect yourself from accidents
 - Wearing appropriate gear (hard hat, steel-toed shoes)
 - Assessing hazards in surroundings and acting appropriately
 - Ensure you have proper safety for hazards known at the site (i.e. HAZWOPER requirements for environmentally impaired sites)
 - Documentation Responsibility
 - Take photos
 - Take complete notes with locations, dates, and times
 - Obtain contact information for representative for follow up or future inspections

Construction Pre-Inspection

- Construction Site Runoff Control Plan:
- Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Collect and analyze background information on tenant/construction site
 - Records of environmental assets
 - Past inspection records
 - Property management files
 - Maps
 - Plans
 - NOI General Form & SSCBMP Plan Review
 - Develop strategy for inspection. What are the specific concerns/goals?
 - Prepare safety equipment
 - Unannounced inspections are allowed, but only recommended for higher levels of enforcement
 - Announced inspections allow time for gathering of records and making appropriate representative available

Construction Pre-Inspection

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- If tenant or contractor is hostile, Harbor police can escort
 - A conference may allow tenant/operators to locate additional documents or key personnel
 - A site representative must accompany the inspector to answer questions and describe operations

Site Inspections

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Inspection procedures will follow Section 5.0 of IEP. Substitute reporting requirements with:
 - Site Specific Compliance, BMP, Pollution Prevention Plan Inspection and Maintenance Report Form
 - Sections covered:
 - Erosion control
 - Sediment controls
 - Stabilized construction entrance
 - Structural controls
 - Other construction activities
 - Contractor activities

Non-NPDES Site Inspections

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Program in Development
 - BMP Plan Review
 - Simplified Inspection Checklist
 - Approval Process for repeat operations
 - Street Cleaning
 - Painting
 - Building Maintenance
 - Etc....

Video

Video Review

- 1st Priority – Minimize erosion
- 2nd Priority – Prevent pollution runoff from leaving site
- Update BMPs when there is a change in
 - Construction process
 - Environment
- Erosion Control Measure – Source prevention
- Sediment Control Measure – Stops pollution after it has eroded
- Tracking Controls – Prevents/minimizes sediment from leaving site on vehicles




EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
North perimeter	2/18/10	yes	Silt Fence	No	Fence is damaged and maintenance records not provided

Notes/Actions:

Damaged area of silt fence is allowing sediment to leave property. Contractor must repair Silt fence.

To be performed by: ABC Construction on or before: 3/4/10


SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	Rate Effectiveness of Control	Comments
Nimutz Gate	Drain Inlet Protection	No	Poor	Not maintained, broken control

* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor

Notes/Actions:

Drain inlet protection is insufficient. Immediate replacement/repair required.

To be performed by: ABC Construction on or before: 3/4/10









Pier 29 Container Yard Construction



Photograph 1 - Petroleum Contaminated Soil Stockpile - Covering Required



Photograph 1: - Reduced excavation prevents storm water erosion run-off



Project Title:	Hawaii Department of Transportation - Harbors Division
Work Order Number:	Storm Water Management - Construction Inspection Pier 20 - HC 10354

Date:	3/2/2011
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Photograph 3 – Primary sediment control device not maintained. Filter socks should remain overlapped and in place. Note secondary filter installed inside drop drum.



Photograph 4 – BGP not properly installed. Filter socks not overlapped. Caps enable sediment to enter the harbor.



Project Title:	Hawaii Department of Transportation – Harbors Division
Work Order Number:	Storm Water Management – Construction Inspection Pier 29 – HC 10354

Date	3/2/2011
Pages	2 of 3



Photograph 5 – KNP not maintained. Filter sock repair/replacement required.



Photograph 6 – State Discharge Point #2. Double filtration with evidence of sediment removal and maintenance on the project site. No evidence of sediment at the discharge point.



Project Title	Hawaii Department of Transportation – Harbors Division
Work Order Number	Storm Water Management – Construction Inspection Pier 29 – HC 10354

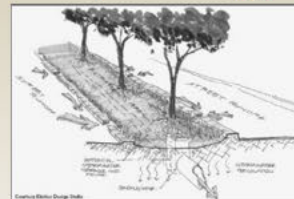
Date:	3/2/2011
Pages:	3 of 3

Low Impact Development Standard

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Appendix K of SWMP
 - Manage storm water as close to the source as possible and limit discharge to MS4 receiving waters
 - New or Redevelopment >5,000 sq.ft. impervious surface
 - Submittal Requirements
 - Peak flow rate calculation
 - Installation design specifications
 - Performance specifications
 - Operations and Maintenance Manuals
 - Options
 - BioSwales, Green Roofs, Bio-Retention Planter Box, Porous Sidewalk, Rain Barrels, Curb Openings, Amended Soil, ect...

Post-Construction Controls

Post-Construction Storm Water Management starts early on in the design process! Tools like Low-Impact Development and Green Design can be used to create a cost effective system for managing runoff from your sites.



Create a Hydrologically Functional Site!!!



Post-Construction Controls

Considering water quality impacts early in the design process can provide long-term water quality benefits.

Low-Impact Development

- Green Design
- Site Specific/Innovative BMPs
- Infiltration
- Filtration
- Retention/Detention
- Isolation/Separation of Runoff from Processes

Options you can use to manage your site:

Minimizing Stormwater

- Green Parking
- Green Roofs
- Protection of Natural Features
- Urban Forestry
- Grassed Swales
- Infiltration Basin/Trench
- Permeable Pavement
- Porous Asphalt Pavement
- Sand and Organic Filters
- Vegetated Filter Strip
- Dry Detention Ponds
- In-Line Storage
- Storm Water Wetland

Post-Construction Controls



Drainage Swales



Storm Water Retention Ponds



Green Roofs

EMS Manual as a Tool for Enforcement



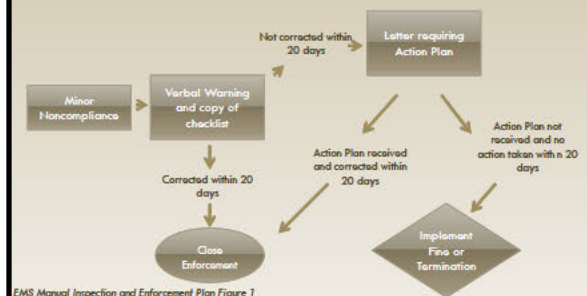
- Appendix G: Inspection and Enforcement Manual
 - Section 6.0 Enforcement Procedures
- Appendix H: Construction Program
 - Inspection and Maintenance Report Form
 - Plan Amendment Review Form

Enforcement Actions

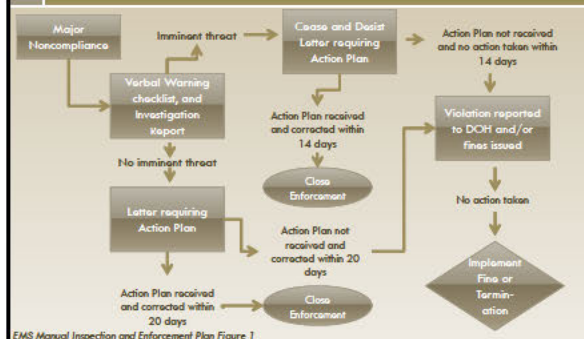
- Construction Site Runoff Control Plan:
- Plan Review
- Site Inspections
- Enforcement Actions
- Reporting
- Educational Outreach

- EMS Manual Appendix G Inspection and Enforcement Plan Section 6.0 directs tenant enforcement
- Contract language directs construction operator enforcement

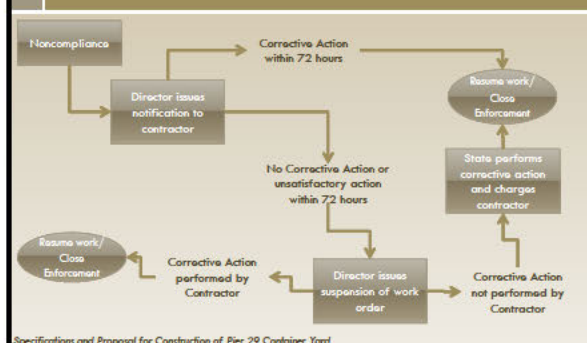
Minor Enforcement Actions for Tenants



Major Enforcement Actions for Tenants



Example Construction Enforcement Actions from Pier 29



Enforcement Actions

Construction Site Runoff Control Plan:
Plan Review
Site Inspections
Enforcement Actions
Reporting
Educational Outreach

- Recommended enforcement actions can be noted on the Inspection and Maintenance Report Form

New Actions	
Done performed by	On or before

Use the specific BMP Inspection and Maintenance Report Page 1 of 1

- Letter of Action will be submitted by Harbor Administrator or Director

Enforcement Actions

Regulatory Mechanisms

- Hawaii Administrative Rules (HAR)
- Hawaii Revised Statutes (HRS)
- Tenant Leases/Revocable Permits / Construction contracts
- 40 CFR - Clean Water Act & NPDES
- Other Applicable State & Federal Regulations

Penalties for Lack of Compliance (dependant on severity of violation)

Verbal Warnings

- Written Notices
- Citation with Monetary Fines
- Stop Work Orders
- Abatement by Harbors Division with Reimbursement by the Responsible Party
- Lease Termination
- Referral to HDOH or Other Appropriate Regulatory Agency

Enforcement Actions

Construction Site Runoff Control Plan:
Plan Review
Site Inspections
Enforcement Actions
Reporting
Educational Outreach

- Corrective actions regarding inadequate BMPs must be rectified and reflected in an amended BMP Plan
- Changes to BMP Plan must be logged in the Plan Amendment Review Form
- Form must be included in tenant file

SITE SPECIFIC COMPLIANCE, BMP AND ELLUTION PREVENTION PLAN AMENDMENT REVIEW FORM	
Project Name	
Project Address	
Project Description	
Project Status	
Project Owner	
Project Manager	
Project Engineer	
Project Designer	
Project Date	
Project Location	
Project Type	
Project Size	
Project Cost	
Project Value	
Project Impact	
Project Benefit	
Project Risk	
Project Status	
Project Date	
Project Location	
Project Type	
Project Size	
Project Cost	
Project Value	
Project Impact	
Project Benefit	
Project Risk	

Reporting

Construction
Site Runoff
Control Plan:
Plan Review
Site
Inspections
Enforcement
Actions
Reporting
Educational
Outreach

- Construction Program Site Specific Compliance, BMP, Pollution Prevention Plan
 - Review Checklist,
 - Inspection and Maintenance Report Form, and
 - Plan Amendment Review Form
- Must be filed in for tracking and record-keeping purposes
- Specific tracking procedures to be developed

Educational Outreach

Construction
Site Runoff
Control Plan:
Plan Review
Site
Inspections
Enforcement
Actions
Reporting
Educational
Outreach

- Training workshops for plan reviewers
- Harbors develops annual educational materials
- Educational Materials will be available on Harbors website

Outreach to Contractors

Construction
Site Runoff
Control Plan:
Plan Review
Site
Inspections
Enforcement
Actions
Reporting
Educational
Outreach

- Resources for specific BMP procedures
 - Best Management Practices Manual for Construction Sites in Honolulu (DES, GCA)
 - Rules Relating to Soil Erosion Standards and Guidelines (DPP)
 - USEPA Website: Menu of BMPs
<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>
 - 40 CFR 450 -- Effluent Limitation Guidelines and Standards for the Construction and Development Point Source Category

Storm Water Contacts

First Call Harbors Hotline

- Harbors Hotline @ (808) 587-1067
- Construction Engineer @ (808) 587-1866

Discharges

- Marine Toilet Control Unit @ (808) 587-7076

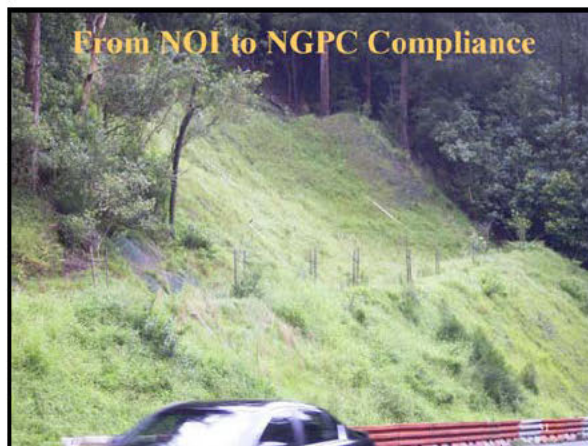
Serious Offenses

- Hawaii Department of Health, Clean Water Branch @ (808) 586-4300
- U.S. Coast Guard @ (800) 424-8802
- USEPA @ (800) 541-2721



REMOVE! CONTAIN! TREAT!
KEEP OUR WATERS CLEAN.....

- Questions?
- Comments?



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Suite 2301
841 Bishop Street
Honolulu, HI 96813
808-275-2900
Fax: 808-585-7378

**HDOT HARBORS
STORMWATER MANAGEMENT
EMPLOYEE TRAINING (ENGIN. BR.)
JUNE 28, 2011**

[illegible]

VOLUNTEER FOR CLEAN-UP?

Suite 2301
841 Bishop Street
Honolulu, HI 96813
808-275-2900
Fax: 808-585-7378

HDOT HARBORS
STORMWATER MANAGEMENT
EMPLOYEE TRAINING (ENGINEERING BR.)
JUNE 28, 2011

[illegible]

APPENDIX P

STORM DRAIN CLEANING LOGS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION
BARBERS POINT KALAELOA

TRANSMITTAL SHEET

DATE: 1/10/12

OF PAGES: 5

TO: Randal

COMPANY:

PHONE:

FAX:

FROM: LOGAN WILLIAMS IV

HARBORS DIVISON

PHONE: 682-6428

FAX: 673-7413

REMARKS: 4 drain cleaning and 1 sweeper log

KALAELOA DRAIN CLEANING CHART

[illegible]

NOTE: 10-25-11 to 12-8-11 Equipment/Back Hoe Down/Week

KALAELOA DRAIN CLEANING CHART

[illegible]

KALAELOA DRAIN CLEANING CHART

BY.

[illegible]

KALAELOA DRAIN CLEANING CHART

[illegible]

much in obs.
11

KALAELOA HARBOR SWEEPER LOG

P-1	F/P	P-5A	P-5	P-6	P-7	OTHERS	BY:	DATE:
	X		X	X			OCG	5/12/09
X		X			X	Office	"	5-13-09
				X			"	6-2-09 sand
				X			"	6-15-09 coal
	X				X			6-11-09
MALAKOLE RD. John Wynn				X				6-25-09
				X				7-7-09
MALAKOLE RD. + Office Area				X				> 7-22/7-23 Coal
X	X	X		X				8-25-09
			X	X				9-16-09
				X	X			9-23-09
				X				10-1-09
MALAKOLE RD + John Wynn				X				10-8-09
X	X	X						10-21-10
			X	X				10-28-10
		X	X		X			8-12-10
		X	X					8-31-10
				X				> 9-13 to 8/14/10 coal
		X	X	X			A.E.S	11-24-10
MALAKOLE RD + John Wynn				X			OCG	6-16-11
X	X	X					"	6-29-11
			X	X			OCG	10-26-11
				X			"	10-27-11
MALAKOLE RD / John Wynn / F/P				X	X		"	10-28-11
				X-2			"	12-1-11
				X-2			A.E.S	12-4-11
				X-2			"	12-5-11
				X-2			"	12-6-11
				X-2			A.E.S	12-7-11
				X-2			A.E.S	12-8-11
				X-2			"	12-9-11
				X-2			A.E.S	12-10-11
				X-2			A.E.S	12-11-11
				X-2			A.E.S	12-26-11
				X-2			A.E.S	12-27-11
				X-2			A.E.S	12-28-11
				X-2			"	12-29-11
				X-2			"	12-30-11
				X-2			"	12-31-11

Annual Compliance Report 2010

Kalaeloa Barbers Point Harbor, Hawaii



Prepared for

**Hawaii Department of Transportation
Harbors Division**

Prepared by

**Weston Solutions, Inc.
841 Bishop Street, Suite 2301
Honolulu, HI 96813**

January 2011

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature

Date

Authorized Representative of Harbors Division

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LIST OF ACRONYMS AND ABBREVIATIONS

ACR	Annual Compliance Report
BMP	Best Management Practice
CFR	Code of Federal Regulations
CSRCP	Construction Site Runoff Control Program
CWB	Clean Water Branch
EMS	Environmental Management System Manual
HAR	Hawaii Administrative Rules
HAR-EE	Harbors Division Environmental Engineering Section
HAR-OE	Harbors Division Oahu District Enforcement
HDOH	Hawaii Department of Health
HDOT	Hawaii Department of Transportation
Honolulu Tower	Honolulu Harbor Marine Traffic Control Tower
HRS	Hawaii Revised Statutes
IDDE	Illicit Discharge Detection and Elimination
IEP	Inspection and Enforcement Plan
KBPH	Kalaeloa Barbers Point Harbor
LIDS	Low Impact Development Standards
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NA	Not Applicable
NGPC	Notice of General Permit Coverage
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NSWD	Non-Stormwater Discharge
ORI	Outfall Reconnaissance Inventory
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TBD	To Be Determined
TMK	Tax Map Key

LIST OF ACRONYMS AND ABBREVIATIONS, CONTINUED

TRP	Tenant Revocable Permit
TSI	Tenant Self-Inspection
USEPA	U.S. Environmental Protection Agency
WESTON	Weston Solutions, Inc.

1.0 INTRODUCTION



The Hawaii Department of Transportation (HDOT), Harbors Division has developed this Annual Compliance Report (ACR) for the Hawaii Department of Health (HDOH) in accordance with its Notice of General Permit Coverage (NGPC), permit number HI03KB488. The ACR details activities conducted by Harbors Division to comply with the requirements of its permit and to keep a record of progress toward yearly goals.

The ACR follows the format and organization of the Storm Water Management Plan (SWMP) to facilitate comparison between planned activities and activities that were accomplished. The ACR describes efforts made by Harbors Division to implement the six minimum control measures established by the United States Environmental Protection Agency (USEPA) and as required by the Hawaii Administrative Rules (HAR) 11-55 Appendix K and the NGPC. This report identifies activities completed during calendar year 2010 and presents areas that will be addressed in calendar year 2011. The following is included in this ACR:

- ✓ Status of Compliance;
- ✓ Assessment of the SWMP minimum control measures:
 - Public outreach and education,
 - Public involvement/participation,
 - Illicit discharge detection and elimination,
 - Construction site runoff control,
 - Post-construction stormwater management in new development and redevelopment;
 - Pollution prevention/good housekeeping;
- ✓ Modifications to the SWMP;
- ✓ Summary of Planned Activities;
- ✓ Modifications to the Small Municipal Separate Storm Sewer System (MS4); and
- ✓ Summary of Future and Expended Budget Requirements



1.1 APPLICABLE REGULATIONS

It is the intention of HDOT Harbors that this ACR demonstrates compliance with the following regulations listed in the NGPC:

- ✓ HAR, Chapter 11-55, Appendix K, National Pollutant Discharge Elimination System (NPDES) General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems;

- ✓ HAR, Chapter 11-55, Appendix A, HDOH, Standard General Permit Conditions; and
- ✓ HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12, and any other applicable Sections of HAR, Chapter 11-55.

1.2 STATUS OF COMPLIANCE

HAR Chapter 11-55 Appendix K authorizes discharges of storm water and certain non-stormwater discharges from small MS4s. Prior NGPC for the storm drain system was granted by HDOH. In a letter dated October 19, 2007 HDOH provided for an extension of the NGPC until a notice of renewed coverage under the applicable general permit is issued or until HDOH notification is received. This extension is in accordance with HAR, Chapter 11-55-34.09(d). The original permit and letter of extension can be found in Appendix A of this document.

1.3 SWMP PERFORMANCE EVALUATION

A process for conducting an annual performance and effectiveness evaluation of the SWMP has been developed and included in this ACR. This evaluation addresses specific direct and indirect measurements in order to track the long-term progress of the SWMP towards achieving improvements in water quality.

The SWMP contains Best Management Practice (BMP) tables that outline activities that are either occurring or will be implemented in the future to ensure each of the minimum control measures are being implemented. Each BMP task is assigned a specific evaluation indicator, milestone, time frame/due date, and responsible party. The ACR is structured such that each section and BMP table corresponds with those in the SWMP. This allows the ACR to be used as an evaluation tool, addressing conformance with established performance standards, quantitative monitoring, estimates of pollutant load reductions or increases, and detailed accounting of SWMP accomplishments.

As trends are detected and the usefulness of specific BMPs or their evaluation indicators become apparent, the SWMP will be modified to ensure the program is protective of the receiving waters.

The 2009 SWMP and ACR establish a baseline from which evaluations in future ACRs can be made. Harbors has committed resources to executing programs described in the 2009 SWMP, and will continue each year to implement new initiatives based on available budget and resources. All ongoing and new activities will be reported in the ACR.

2.0 PUBLIC EDUCATION AND OUTREACH



Permit Requirements

City and County of Honolulu Stormwater Stenciling, 2009

HAR, Chapter 11-55, Appendix K, Part 6(a)(1). Develop and implement a public education program to distribute educational materials to users of the small municipal separate storm sewer community or conduct equivalent outreach activities emphasizing each of the following:

- (B) Hazards associated with illicit discharges, and*
- (A) Impacts of stormwater discharges on water bodies,*
- (C) Measures the users of the permittee's small municipal separate storm sewer system can take to reduce pollutants in stormwater runoff, including, but not limited to, minimizing fertilizer application and practicing proper storage and disposal of chemicals and wastes.*

2.1 TENANT EDUCATION AND OUTREACH

Harbors Division requires tenants to reduce to the maximum extent practicable (MEP) pollution in storm water discharges and effectively prohibit unauthorized non-storm water discharges into the MS4 through its tenant lease agreements and Tenant Revocable Permit (TRP), which are attached as Appendix B.

An inventory of tenants at Kalaeloa Barbers Point Harbor (KBPH) is kept on file at Harbors Environmental Section and has been updated this year to include all current tenants. The tenant inventory identifies primary and alternate environmental contacts for each tenant. Personnel identified in the inventory are deemed responsible for implementation of storm water protection measures and BMP requirements at their facility. Please see BMP 2-1. The tenant inventory can be found in Appendix C, and has been updated to reflect changes from 2010.

Harbors Division sends out an annual mailing to Small MS4 users in order to educate them on storm water quality issues, and collect data on tenant operations for updating the database. The 2010 mailing was sent on 27 September and included:

- A cover letter from the HDOT Harbors Administrator
 - Defined the regulatory background
 - Invited all tenants to attend Tenant Storm Water Pollution Prevention Awareness Training
 - Informed all tenants of the anticipated inspection schedule
- The Tenant Self-Inspection (TSI) form
 - Returned forms utilized for updating and tracking tenant operations and contact information
- The tenant inspection checklist
 - Provide advanced understanding of the inspection requirements
 - Allowed tenants to review and ask questions or seek further guidance prior to the inspections
- New BMP flyers
 - “Vehicle and Equipment Washing” Flier. The flier describes the flow pathway of pollutants into the storm drains, the responsibility of tenants to operate within parameters of the Harbors SWMP, and solutions the tenant may implement to stay in compliance.
 - “Vehicle and Equipment Fueling” Flier. The flier describes administrative and structural controls that are required to be implemented in order to prevent the flow of fuel-related pollutants into the storm drains.

A copy of this mailing and its attachments can be found in Appendix D. The updated TSI database for KBPH is found in Appendix E. Future tenant mailings will be updated with new BMP flyers based on findings from the annual tenant inspections.

On November 3 and 5, 2010 Harbors Division held annual tenant educational workshops entitled, “Tenant Storm Water Pollution Prevention Awareness Training.” The agenda included background on applicable regulations presented by a HDOH Clean Water Branch (CWB) representative, followed by Harbors General Permit requirements for Small MS4s, information on pollution prevention and good housekeeping, notification of upcoming facility inspections, the structure of the Inspection and Enforcement Program (IEP), emergency contact information, and a question and answer session. A copy of the presentation and tenant attendance record are provided as Appendix F.

Harbors Division has maintained a hotline for storm water information and discharge reporting since October 22, 2009. Please see BMP 2-1. The hotline is reachable by dialing (808)-587-1962. The hotline number is a direct line to the Harbors Division Environmental Engineer. Harbors Environmental Section maintains records of calls, follow-up inspection dates and findings,

enforcement actions taken, and resolutions in the Harbors Division Environmental Engineering Section (HAR-EE) Spill Documentation Form. Although no calls were received from the public, calls from the Honolulu Harbor Marine Traffic Control Tower (Honolulu Tower) were received as required notification after environmental incidents, which were recorded in the spill documentation form. Please see Appendix G for the HAR-EE Spill Documentation Forms.

BMP 2-1 Tenant Education and Outreach

Goals: 1) Generate tenant awareness of storm water pollution. 2) Engage tenant interest in preventing storm water pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update mailing items as outreach and education problem areas are identified and recorded	Percentage of problem areas in education/outreach addressed by updated materials	100% of identified problem areas updated	Sept 2010	Weston Solutions, Inc. (Weston)	Items were updated to include vehicle fueling and washing.
	Percentage of tenants' feedback about the updates that are positive	At least 50% of feedback positive	Not Applicable (NA)	Harbors Environmental Section	No feedback received.
Review TSI responses from tenants	Percentage of tenants responsive to the TSI Form	Greater than 90% of tenants	Ongoing	Harbors Environmental Section	To Be Determined (TBD) by December 2011
Mail educational materials and reporting contacts to tenants	Number of educational materials distributed	100% of tenants received educational materials and reporting contacts	Registered mail receipt varies	Harbors Environmental Section	206 mailings were sent (Honolulu Harbor and KBPH)
	Responses on TSI Form show improvement in storm water awareness	Completeness of TSI forms increasing from previous year	Registered mail receipt varies	Harbors Environmental Section	Include TSI guidance with 2011 flyer
Establish a reporting/complaint tracking system to log response & enforcement	Create a hotline system for reporting violations and answering questions	Create and maintain one hotline number	22 Sept 2009	Harbors Environmental Section	Hotline established

Goals: 1) Generate tenant awareness of storm water pollution. 2) Engage tenant interest in preventing storm water pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
activity	Number of informational inquiries received via hotline	Number of inquiries increased from previous year	NA	Harbors Environmental Section	No inquiries received, however 2 notifications from the Honolulu Tower were received.
	Number of hours to respond to complaint from time call is received.	Respond to all reporting/complaints within 24 hrs to minimize water quality impacts or recurrent dumping	NA	Harbors Environmental Section	NA

2.2 GENERAL PUBLIC EDUCATION AND OUTREACH

Public education aims to create awareness and prompt behavioral changes. Equipped with information, the public will be less likely to contribute to water pollution as they will be able to make informed choices. Educating the public with this knowledge and contact information for appropriate authorities will increase the likelihood that a violation or accidental releases will be reported. The responsibility for tenant and public education falls under the HDOT HAR-EE.

Public education activities includes posting signs that advise against dumping or discarding inappropriate materials where they may be carried into Harbor waters. Signs are posted at visible public locations, such as harbor entrances, comfort stations, meeting areas, and garbage collection stations. Please see BMP 2-2.

The Harbors storm water website is under construction, but currently provides information about water quality issues, emergency reporting numbers, and links to useful sections of the USEPA website. Please see BMP 2-2. The website can be accessed at <http://hawaii.gov/dot/harbors>.

Although no ad was placed in 2010, Harbors Division will



Ad placed in Honolulu Advertiser

continue to foster relationships with other State agencies and develop new programs for public education and outreach in 2011.

BMP 2-2 General Public Education and Outreach

Goals: 1) Generate tenant awareness of storm water pollution. 2) Engage tenant interest in preventing storm water pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Post or construct signage at visible public locations	Visible areas covered by "No Dumping" signs	Signs are hung at additional visible public locations	NA	Harbors Environmental Section	Tenant inspections identified optimal public locations for signs. Signs will be created and posted in 2011
	Storm drains with "flows to ocean" stenciling	Number of drains stenciled	NA	Harbors Environmental Section	Collected contact information for tenant volunteers for stenciling activity. Activity to be held in 2011.
	Track the amount of inappropriate materials dumped and correlate this data to the timing of public sign posting to gauge any change of public behaviors over time	The amount of polluting material generated by dumping or discarding has been reduced	NA	Harbors Environmental Section	Will be tracked in 2011.
Create/update runoff water quality presentations on Harbors Division website	Create/update presentation and post to website	Presentation is posted	Ongoing	Weston/Harbors Environmental Section	Presentation created and will be posted in 2011
Measure dissemination and effectiveness of water quality presentation	Percentage increase in presentation viewing, measured by number of hits on presentation website	Increase viewing from previous year	TBD	Harbors Environmental Section; Harbors web master	Website posting to be completed in 2011

Goals: 1) Generate tenant awareness of storm water pollution. 2) Engage tenant interest in preventing storm water pollution. 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Set up and solicit a volunteer cleanup or storm drain stenciling activity	Participation in activities.	At least one of the listed activities	NA	Harbors Environmental Section	Volunteer solicitation conducted and activity will be implemented in 2011
	Number of employee and public participants	An increase in participation from previous year	NA	Harbors Environmental Section	Tenant solicitation during training resulted in increased volunteer commitment
Post public awareness advertisement in local newspaper or magazine to educate the general public on storm water pollution control	Number of advertisements sponsored	One per year	NA	Harbors Environmental Section	No advertisement posted in 2010.

2.3 VESSEL OPERATORS EDUCATIONAL PROGRAM

Outreach to vessel operators docking at Harbors Division facilities ensures awareness of potential pollutant sources associated with vessel operation in the harbor, including vessel equipment wash water and polluted deck wash-down water, and vessel maintenance. A used oil educational flier was distributed to vessel operators and is available in the 2009 SWMP.

Marine Cargo Specialists monitor loading and unloading procedures for the major vessels in the Harbor. Their duties include tracking compliance with various aspects of the process including storm water pollution control compliance. Harbors is developing a tracking system for Marine Cargo Specialist monitoring records, which will include storm water observations. The monitoring records will be tracked following Marine Cargo Specialist training in 2011. Please see BMP 2-3.

BMP 2-3 Expand the Educational Program to Vessel Operators

Goal: Minimize discharge of pollutants to receiving waters within the harbors					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Marine Cargo Specialists will Monitor ship cargo loading and unloading to prevent discharges of pollutants	Frequency of monitoring activity at loading/unloading zones	Increasing frequency	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	To be implemented in 2011
	Number of Marine Cargo Specialist Attending Annual Storm water Training	Increasing attendance	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	Training to occur in 2011
	Number of actions taken as a result of loading and unloading monitoring	For informational purposes	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	No monitoring performed
Develop and maintain inventory of ships agents responsible for tracking vessel operators and provide educational materials	Percentage of ships agents in inventory	100% of ships agents identified	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Ships agents identified in tenant inspections and inventory will be developed in 2011
	Percentage of ships agents receiving educational materials	100% of ships agents received materials	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Educational materials distributed in training. Total number of agents TBD.

2.4 INSPECTION AND PROGRESSIVE ENFORCEMENT PROGRAM

A tenant and user inspection and enforcement program has been developed as part of Harbor's Environmental Management System (EMS). This program identifies, tracks, inspects and ensures compliance with the Harbor Division's tenant lease agreements and TRPs. As part of the inspection and progressive enforcement program, the inventory of businesses and industries currently operating at the Harbor has been updated (Appendix C). Inspection and Illicit Discharge Detection and Elimination (IDDE) findings are further discussed in Section 4.0.

Harbors completed inspection of all of its KBPH tenants in 2010. Inspection of and outreach to commercial and industrial tenants was conducted to ensure the following:

- ✓ Establish a baseline of the level of compliance of tenants and where outreach efforts should be focused;
- ✓ The facility operator has been made aware of storm water pollution prevention requirements and the consequences of non-compliance;
- ✓ The facility operator is in compliance with its tenant lease agreement or TRPs;
- ✓ Unauthorized non-storm water discharges do not occur at the facility; and
- ✓ Illicit connections are not present at the facility.

Harbors Division continues to respond to violations observed during these inspections in accordance with the SWMP. Inspection findings were added to the database upon completion in January 2011.

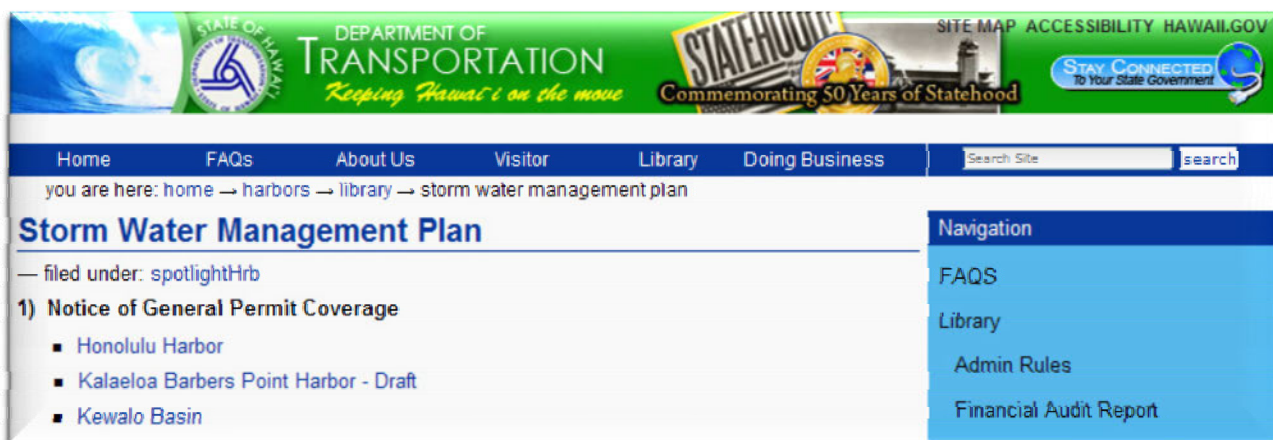
Overall each of the tenants showed a willingness to cooperate and improve compliance with storm water regulations and the Harbor's SWMP. In most cases the tenant was unaware of the potential storm water impacts and/or that administrative and engineering controls were required for compliance with storm water regulations. Inspections did not reveal any immediate threats to KBPH.

BMP 2-4 Inspection and Progressive Enforcement Program

Goal: Identify, track, inspect and ensure compliance with the Harbor Division's tenant lease agreements and TRPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update inventory of businesses and industries currently operating at the Harbor	Frequency of inventory update	On-going	Annual	Harbors Division	Inventory is being updated
Create/update database to record and track tenant inspection findings, enforcement actions, and resolutions.	Database is created and functional	100% of inspections are recorded in the database	Dec 2010	Harbors Environmental Section	Database was updated and is located at Harbors Division office
Conduct initial inspection at all commercial and industrial tenant facilities (refer to BMP 4-2 for follow-up inspection)	Percentage of commercial and industrial tenant facilities inspected	100% of tenants	Dec 2010	Harbors Environmental Section, Weston, HDOT	9 of 9 (100%) KBPH tenants were inspected.
Add inspection findings and enforcement taken to database	Number of sites for which inspection findings, enforcement actions, and resolutions are added to database	100% of sites	Ongoing	Harbors Environmental Section	Tenant inspection findings will be completed in February 2011 whereupon they will be included in the database.

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3.0 PUBLIC INVOLVEMENT/PARTICIPATION



Permit Requirements

<http://hawaii.gov/dot/har>

HAR, Chapter 11-55, Appendix K, Part 6(a)(2). *Include users of the permittee's small municipal separate storm sewer system in developing, implementing and reviewing the stormwater management plan.*

3.1 RECEIVE PUBLIC FEEDBACK ON SWMP

Public participation is intended to raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.

Public awareness of storm water quality issues is targeted to solicit comment by informed members, which may lead to a better and more effective plan and implementation. Harbors Division has invited public involvement and participation during the previous NGPC term by posting the SWMP to the Harbors Division website.

The current SWMP is in draft review with HDOH and USEPA Region IX; therefore no tenant or public comment has yet been solicited by Harbors Division. When the SWMP is ready for public comment, Harbors will post it on the website and request comments. Comments received will be tracked and changes will be implemented where necessary or improvements can be made. Please see BMP 3-1.

BMP 3-1 Receive Public Feedback on SWMP

Goal: To raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Ensure notification to harbor tenants of SWMP development capability	Percentage of tenants notified	100% of tenants notified	NA	Harbors Environmental Section	Not performed. SWMP still in draft review
Post the Draft SWMP to the Harbors website during public comment window	Number of people who viewed the SWMP online	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review
	Number comments received for SWMP revision	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review
Develop system for tracking comments and change produced by comments	Percentage of comments tracked	100% of comments tracked	NA	Harbors Environmental Section	Not performed. SWMP still in draft review

4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION



Permit Requirements

Kaunakakai Harbor, Hawaii. February 2006.

HAR Chapter 11-55 Appendix K Part 6.(a)(3). Develop, implement and enforce a program to detect and eliminate illicit discharges that at a minimum includes the following:

- (A) Establishment of rules, ordinances or other regulatory mechanism, including enforcement procedures and actions, that prohibit non-stormwater discharges, except those listed in section 1 that do not cause or contribute to any violations of water quality standards, into the permittee's small municipal separate storm sewer system,*
- (B) Procedures to detect and eliminate illicit discharges (as defined in 40 Code of Federal Regulations (CFR) Section 122.26(b)(2)), and*
- (C) Compilation of a list of non-stormwater discharges or flows that are considered to be significant contributors of pollutants and the measures to be taken to prevent these discharges into the permittee's small municipal separate storm sewer system, or reduce the amount of pollutants in these discharges.*

4.1 REGULATORY MECHANISMS IN-PLACE

Existing rules and ordinances that prohibit non-stormwater discharges are in place and include the following citation from HAR Title 19, Chapter 42, Section 127: no person shall "place, throw, deposit, or discharge, or cause to be placed, thrown, deposited, or discharged into the waters of any harbor, river or shore waters of the State any litter, or other gaseous, liquid or solid materials which render the water unsightly, noxious or otherwise unwholesome so as to be detrimental to the public health and welfare or a navigational hazard. No person shall discharge oil sludge, oil refuse, fuel oil or molasses either directly or indirectly, or pump bilges or ballast tanks containing other than clean water into the waters of any harbor, river or into any shore waters in the State."

The rules are made enforceable by Title 19, Chapter 41 Section 12 which grants the HAR the full force and effect of law pursuant to sections 266-2, 266-3, 266- 4, and 266-25, Hawaii Revised Statutes (HRS). The enforcement of these rules shall also be pursuant to the provisions of section 26-14.6, HRS. The violation of these rules shall be subject to penalties as set forth in section 266-25, HRS, and the Harbors IEP.

Further, HAR Title 19 Chapter 42 Section 15 requires compliance with Federal, State, and County laws, ordinances and rules, and in particular rules of the HDOH pertaining to air and water pollution.

TRPs and tenant lease agreements incorporate language which requires compliance with all storm water quality regulations. Copies of "Lease Agreement Addendum 1, Environmental Compliance - Lessee's Duties" and an excerpt from the Standard Revocable Permit form, "Section 26. Special Terms and Conditions, Environmental Compliance - Permittee's Duties" are provided in the SWMP and Appendix B of this report.

4.2 ILLICIT DISCHARGE DETECTION AND ELIMINATION PLAN

Harbors Division has developed an IDDE plan as part of its SWMP in an effort to eliminate discharges that the established storm drainage system is not designed to accept, process, or discharge.

In accordance with its IEP, Harbors conducted inspections of nine of nine tenants at the KBPH (two tenants were located at both Honolulu Harbor and KBPH). Included in this task was the creation of comprehensive lists indicating the locations and quantities of various Non-Stormwater Discharges (NSWDs), potentially polluting materials, and BMPs in use at the facilities. The inspection findings will be completed by the end of 2011.

The resultant inspection report for each inspection will be sent to each tenant in 2011. The inspection reports contain the following:

- ✓ An explanation the objective of the inspections;
- ✓ Tenant contact information;
- ✓ Facility description
- ✓ A summary of inspection observations;
- ✓ Risk ranking;
- ✓ Personnel training requirements; and
- ✓ Photo log.

Observations include industrial activity, petroleum and solvent storage quantities, mode of storage, potential pollution sources, a description of site drainage, observed BMPs, and required BMPs.

In some cases where discrepancies showed an immediate threat to water quality, tenants were asked to rectify the discrepancy during the inspection. Discrepancies that could not be immediately rectified were communicated to the tenant representative and noted.

Overall, all tenants that had discrepancies were unaware of storm water regulations pertaining to the issue and showed willingness to comply immediately.

4.2.1 Update Storm Sewer System Map

The most up-to-date MS4 outfall map is included as Appendix I of this document. The map contains outfall locations, drain and piping locations, and outfall IDs. Please see BMP 4-1.

BMP 4-1 Update Storm Sewer System Map

Goal: Develop a comprehensive infrastructure map of the MS4 storm drain system					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update outfall maps to identify sources of outfall discharges and outfall conditions	Percentage of outfalls that have sufficient, up-to-date information	100% of outfalls	30 Dec 2009	Harbors Environmental Section	Outfall maps were submitted with SWMP. No change from 2009.
	Sources of outfall discharges identified	100% of sources identified	NA	Harbors Environmental Section	Investigation is ongoing

4.2.2 Outfall Reconnaissance Inventory (ORI)

An annual dry weather ORI was performed December 30, 2010 by the Harbors Environmental Health Specialist. The ORI was made at low tide and observed outfall conditions, flow characteristics, and the surrounding areas. Although a dry weather inspection was performed, no records were produced. Wet weather observations were also not recorded this year.

Focus will be placed on documentation of inspections in 2011. Wet weather inspections will be implemented to ensure the dredge soil stock piles sediment control BMPs are appropriate and effective.

BMP 4-2 Outfall Reconnaissance Inventory

Goal: Establish and carry out procedures to identify and remove illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Dry weather visual inspection of outfalls	Percentage of outfalls inspected	100% of outfalls inspected on-time	December 30 2010	Harbors Environmental Section	Completed
Wet weather inspections of outfalls	Percentage of outfalls inspected	20% of outfalls inspected on-time	NA	Harbors Environmental Section	Not recorded.
Collect and analyze reports of illicit discharges.	Number of apparent illicit discharges reported.	100% of illicit discharges found	NA	Harbors Environmental Section	No illicit discharges found.
Input inspection findings into database.	Percentage of findings input into database	100% of findings	December 2010	Harbors Environmental Section	Documentation not provided for 2010. Focus on 2011
Ensure proper measures and controls are implemented to mitigate pollutants in permitted NSWDS	Number of permitted NSWDS found that lack proper controls	Reduced from previous year	NA	Harbors Environmental Section	No permitted NSWDS exist to date
Document these controls in a database with tenant information and Tax Map Key (TMK)	Percentage of permitted NSWDS recorded in database	100% of identified permitted NSWDS	NA	Harbors Environmental Section	NA

4.2.3 Illicit Discharge Reporting

The Harbors Division Environmental Section collects and records reports of storm water quality violations through its storm water hotline. Calls are recorded on the HAR-EE Spill Documentation Form, available in Appendix G of this document. There were no illicit discharges reported through the hotline in 2010. The hotline will be advertised in future educational mailings and educational workshops. Please see BMP 4-3.

Harbors Grounds Maintenance personnel track illicit discharge incidents utilizing a Pier Inspection Form to record their observations. No illicit discharges were recorded by Harbors Ground Maintenance in 2010; however a monthly spill log was kept and is included as Appendix J. No spills were reported in the log for KBPH in 2010.

The Honolulu Tower keep s a log of all incidents reported for KBPH. The log details the date, time, location, persons involved, and description of the findings or incident reported. Please see BMP 4-3. The Honolulu Tower is required to notify HAR-EE on all environmental issues. Records of this notification can be found in Appendix G.

BMP 4-3 Illicit Discharge Reporting

Goal: Encourage public education and involvement in eliminating illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Collect violation reports from the Marine Traffic Control Center	Percentage of violations reported	100% of violation reports collected	Continuous	Harbors Environmental Section	Follow up conducted as needed
Record report of illegal discharge incidents	Keep Marine Cargo Specialist inspection reports on-file.	100% of Pier inspection reports are kept	TBD	Harbors Environmental Section	No inspection reports received.
Establish the illicit discharge/illegal dumping hotline	A hotline for citizens to report illegal dumping and suspicious discharges will be established in the first year. (See BMP 2-1)	Establish one hotline	22 Oct 2009	Harbors Environmental Section	Completed
Determine effectiveness of hotline	Number of illicit discharge/illegal dumps reported by citizens	Increasing from previous year	NA	Harbors Environmental Section	No calls received by Hotline in 2010
	Number of illicit discharges prevented or stopped due to call to hotline	Increasing from previous year	NA	Harbors Environmental Section	NA
Advertise hotline	The hotline will be advertised on an insert in each TSI mailing and on all storm water pollution prevention signage	One TSI mailing insert per year and all signage	Registered mail receipt varies	Harbors Environmental Section	The hotline was advertised in TSI mailing in 2010. Quick reference cards distributed at training.

4.2.4 Inspection and Enforcement Plan

When an illicit discharge is determined to have taken place, appropriate action is taken against the responsible parties according to the IEP. This document establishes specific inspection procedures, enforcement tools, and the progressive escalation of enforcement action with regard to the seriousness of the illicit discharge and the recalcitrance of the dischargers.

Harbors ranked each tenant based on the tenant's potential to contribute pollutants to the environment. See BMP 4-4. The results of the tenant risk rankings will be reevaluated for accuracy each calendar year. The tenant's ranking determines the frequency of inspection according to the IEP. High risk tenants will be inspected twice per year, medium ranking tenants will be inspected annually, and low ranking tenants will be inspected biannually. A summary of tenant rankings and inspection frequencies will be completed following the finalization of the inspection reports for all Harbors tenants.

Harbors Division maintains records, including inspection reports, warning letters, notices of violation, resolutions, and other enforcement records demonstrating its good faith effort to bring tenant facilities into compliance with applicable requirements. Tenants are provided with inspection findings in the form of a letter. No major enforcement actions were taken in 2010 as a result of inspections. See BMP 4-4.

BMP 4-4 Inspection and Enforcement Plan

Goal: Eliminate illicit discharges through inspection and enforcement.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Establish/update ranking of tenants according to Inspection and Enforcement Manual	Percentage of tenants ranked	100% of tenants ranked	December 2010	Harbors Environmental Section	Completed rankings for nine tenants (100%).
Perform initial investigation upon discovery or notification of a suspected illicit discharge or connection.	Percentage of reports investigated	100% investigated	NA	Harbors Environmental Section	No IDDE reported this period.
Follow up investigation of illicit discharge	Percentage of investigations followed up	100% Follow up	NA	Harbors Environmental Section	No IDDE reported this period.
If enforcement action has taken place, perform	Same as above	Same as above	NA	Harbors Environmental Section	No IDDE reported this period.

Goal: Eliminate illicit discharges through inspection and enforcement.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
follow up inspection within two weeks of initial inspection					
Initiate investigation of complaints transmitted by HDOH regarding facilities within its jurisdiction	Percentage of reports investigated	100%	NA	Harbors Environmental Section	No complaints by HDOH.

4.2.5 Employee Training

Harbors Division annually provides initial and refresher NPDES training to key personnel to instruct personnel at all levels of responsibility, including Harbors Oahu District Enforcement (HAR-OE) personnel, concerning the components and goals of the SWMP. Please see BMP 4-5. The instruction addresses the following areas:

- ✓ Regulatory requirements,
- ✓ Materials management practices including proper storage, handling, and use of materials,
- ✓ Good housekeeping and criteria for clean working environment,
- ✓ Recognizing conditions that could lead to degraded runoff water quality,
- ✓ Identifying and notifying responsible parties,
- ✓ Taking action to correct conditions that could result in storm water pollution,
- ✓ Warning and enforcement procedures, and
- ✓ Recording incidents.

A copy of the employee training materials can be found in Appendix K.

As stated in the SWMP, Harbors Division will provide annual train to all employees who are responsible for identification, investigation, elimination, cleanup and reporting of illicit connections and other illicit discharges.

BMP 4-5 Employee Training

Goal: Eliminate illicit discharges through training of essential personnel.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop storm water IDDE training materials	Training materials address all relevant IDDE aspects and are up to date	IDDE is addressed	TBD	Harbors Environmental Section, Weston	Completed
Train all employees who are responsible for identification, investigation, elimination, clean-up, and reporting of illicit connections/discharges	Frequency of employee training Number of employees trained	Once per year Train all applicable employees	TBD	Harbors Environmental Section, Weston	Completed. HAR-OE included.

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5.0 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL



Drain Inlet Control, Barbers Point. January 2006.

Permit Requirements

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce storm runoff pollutants entering the permittee's small municipal separate storm sewer system from construction activities disturbing one acre or more, including construction activities less than one acre that are part of a larger common plan of development or sale that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances and other regulatory mechanism, including enforcement procedures and actions, that require erosion and sediment controls,*
- (B) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices,*
- (C) Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts on water quality,*
- (D) Procedures for site plan review of construction plans which incorporate consideration of potential water quality impacts,*
- (E) Procedures for receipt and consideration of information submitted by the public,*
- (F) Procedures for site inspection and enforcement of control measures.*

5.1 CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

A Construction Site Runoff Control Program (CSRCP) has been developed and included as part of Harbor's SWMP in order to establish rules, ordinances, and other regulatory mechanisms in order to:

- ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
- ✓ Require erosion prevention and sediment controls at all construction projects;
- ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and

- ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.

The CSRCP includes the following:

- ✓ Construction site plan reviews;
- ✓ Pollution prevention;
- ✓ Source identification;
- ✓ BMP implementation;
- ✓ Construction site inspections;
- ✓ Enforcement measures;
- ✓ Report of non-compliant sites; and
- ✓ Education outreach for construction site operators

5.1.1 Required Document Review

Harbor Division's CSRCP applies to all construction projects existing within its jurisdiction, regardless of size or ownership of the construction site or activity.

Plan reviews are specific to a section's area of responsibility. The Environmental Section reviews plans for potential storm water quality impacts and drainage connection and discharge permit applications. This review process is tracked and included in the ACR. Please see BMP 5-1.

Construction site operators are required to submit a Storm Water Pollution Prevention Plan (SWPPP) and a Notice of Intent (NOI) under the Hawaii NPDES General Permit Authorizing Discharges of Storm water Associated with Construction Activity, HAR Chapter 11-55 Appendix C (the Hawaii Construction General Permit) for projects greater than one acre prior to approval. Harbors Division ensures that plans reflect the actual site conditions and are updated accordingly. The HDOH CWB implements NPDES requirements in Hawaii and administers review and granting of Individual and General Permit Coverage, however NOI requests for discharge of storm water from industrial sites and SWPPPs have been routed to HAR-EE for review and comment. In 2010 the following plans were reviewed by Harbors Division:

Table 5-1 Summary of Plans Reviewed

Location	Project Description
Pier 7	Dust Suppression

TRPs and tenant lease agreements require compliance with all environmental laws and limit possession, usage and storage of hazardous wastes without lessor knowledge and consent.

Harbors Division requires that prior to new connections or discharge to the regulated drainage system, an application for the connection and/or discharge must be made. Upon review and acceptance of the application, Harbors returns a permit for connection, a permit for discharge or comments explaining a denied connection or discharge.

Storm water BMPs are reviewed by HDOH CWB during NPDES NOI review, and may be reviewed by the City and County of Honolulu if plans are routed through them. Please see BMP 5-1. Harbors Division personnel including Marine Cargo Specialists, the Harbor agent, and Construction Inspectors may note implementation of BMPs and contractor waste management practices, and have authority to take action in the event of noncompliance.

BMP 5-1 Required Document Review

Goal: Prevent sediment and erosion runoff from construction sites during the planning phase.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Review construction plans for potential impacts in respective areas	Percentage of construction plans reviewed	100% of plans reviewed	NA	All HDOT Engineering Branch Sections	Reviewed dust control plan on Pier 7. Documentation not available.
Review plans for storm water considerations during pre- and post-construction phases	Percentage of construction plans reviewed	100% of plans reviewed	NA	Harbors Design, Maintenance and Environmental Section	Construction plans with potential stormwater impact reviewed but not tracked.
Review SWPPP, NOI, and discharge permit applications for construction projects	Percentage of documents reviewed	100% of documents reviewed	NA	Harbors Design, Maintenance and Environmental Section	Applications reviewed but not tracked.
Review erosion and sediment BMPs and waste management practices	Percentage of sediment BMPs and waste management practices reviewed	100% of BMPs and waste management practices reviewed	NA	HDOH Clean Water Branch, City and County of Honolulu, or Harbors Division	Plans reviewed but not tracked.

5.1.2 Construction Site Best Management Practices

Construction site BMPs serve the purpose of preventing sediment and other pollutants created from construction activities from reaching waters. In many cases BMPs prevent sediment and pollutants from being dislodged from their original locations.

Harbors Division requires that construction site operators implement appropriate erosion and sediment control BMPs as well as any other BMPs that will reduce the flow of pollutants off-site to the MEP. Selected BMPs must demonstrate an understanding of the soil texture and sediment size such that the BMP chosen provides the maximum benefit to runoff control. Harbors Division requires construction site operators to prevent pollutants from sediment, erosion, and waste from entering the storm sewer system by use of structural controls and administrative BMPs.

5.1.3 Site Inspection and Enforcement

Construction sites are inspected for compliance with the storm water-related requirements until construction is terminated, the site has been stabilized, and the site's NPDES construction permit has been closed. Inspections are at least once every two weeks during the months of October through April, then at least bi-monthly during the remaining months. Inspections ensure the following:

- ✓ Sediments generated at the project site are retained using adequate source control and structural BMPs;
- ✓ Construction-related materials and wastes are retained at the project site to avoid discharge to the storm sewer and waters of the United States;
- ✓ Unauthorized non-storm water runoff is contained at the project site; and
- ✓ Erosion from slopes and channels are controlled by implementing an effective combination of erosion and sediment control BMPs, such as limiting grading during the wet season; inspecting graded areas during rain events; planting and maintenance of vegetation on slopes; and covering slopes susceptible to erosion.

Enforcement is executed according to the IEP located in Harbor Division's EMS Manual. Reports include a list of all construction projects, inspection dates, and resolution of any violations of storm water-related requirements and can be found in Appendix L. Please see BMP 5-2.

Table 5-2 Summary of Construction Inspections

Project Number	Project Title	Dates Inspected (2010)	Corrective Actions
HC10385	Repair Lighting at Pier 1	3/24	No activity during inspection.
HC10387	Relamp Floodlights	4/13, 4/28, 12/8	None
HC10391	Repair Bullrails at Pier 7	3/24, 4/13, 4/28, 5/26	Verified waste removed daily.

BMP 5-2 Site Inspection and Enforcement

Goal: Ensure implementation of BMPs and controls by construction site operators through inspection and enforcement.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Perform inspections of permitted construction sites for implementation of construction site BMPs	Frequency of inspection	At least once every two weeks during the months of October thru April, then at least bi-monthly during the remaining months	Throughout the year	Harbors Division, Site Inspectors	Completed. See Table 5-1 for summary and Appendix L for reports.
	Number of construction sites inspected	100% of construction sites	Throughout 2010	Harbors Division, Site Inspectors	3 of 3 (100%)
Incorporate inspection of storm water components into inspection program	Construction site storm water deficiencies are reduced	Deficiencies are reduced from previous year	Throughout 2010	Harbors Division, Site Inspectors	Baseline established. Erosion and sediment control inspections already underway.
Keep a list of all construction projects, inspection dates, and resolution of violations for the ACR.	Completeness of inventory	100% of construction sites, inspections, resolutions, and violations recorded	Throughout 2010	Harbors Construction and Environmental Section	File created at Harbors and 100% of known construction sites inspected.

5.1.4 Receipt of Public Input

Harbors Division remains open to public comment and illicit/NSWD reporting. The public is able to contact Harbors Division via hotline, email, website, or mail. Communications are logged on the HAR-EE Spill Documentation Form and appropriate responses are made. No public input was received during the 2010 period. Please see BMP 5-3.

BMP 5-3 Receipt of Public Input

Goal: To remain receptive public to opinion and involvement					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Accept and follow up on public reporting and record outcome	Track number of public reports	Increase from previous year	NA	Harbors Environmental Section	None received

5.1.5 Training and Outreach

Harbors Division employees who are responsible for construction plan review and site inspections are trained annually in the requirements of the SWMP and Hawaii General Permits. A copy of the Stormwater Construction Inspection training is available as Appendix M. Please see BMP 5-4. Employees were trained in plan review and inspection procedures.

Construction plan review training included the following 10 elements taken from USEPA guidance:

- ✓ Minimize clearing and grading;
- ✓ Protect waterways;
- ✓ Phase construction to limit soil exposure;
- ✓ Immediately stabilize exposed soils;
- ✓ Protect steep slopes and cuts;
- ✓ Install perimeter controls to filter sediments;
- ✓ Employ advanced sediment settling controls;
- ✓ Certify and train contractors on storm water site plan implementation;
- ✓ Control waste at the construction site; and
- ✓ Inspect and maintain BMPs.

Construction site inspection included training on specific forms from the Harbors EMS Manual:

- ✓ HDOH CWB NOI General Form
- ✓ HDOH CWB NOI Form C
- ✓ EMS Manual Appendix G – Inspection and Enforcement Program
- ✓ EMS Manual Appendix H – Construction Program
- ✓ HAR 11-55 Appendix C

Education and outreach will be provided for stakeholders. Harbors Engineering Branch has not yet developed educational materials. These educational materials are planned to be included in an

educational package to be distributed during the pre-construction meeting. Educational materials will include construction storm water BMPs and will be available electronically on the website or in hard copy upon request. Please see BMP 5-4. The intent of these educational materials is to make certain that the site manager or onsite coordinator is aware of the proper installation and maintenance procedures for construction storm water BMPs.

5.1.6 Dredge Spoil Stockpile Management Plan

As part of the 2009 SWMP, Harbors developed a dredged spoil stockpile management plan for implementation of erosion and sediment control BMPs, the purpose of which is to prevent both wind-and water-caused erosion of the stockpiled materials. Existing stockpiles and stockpile control measures were investigated during 2009 and again in 2010 in order to create the stockpile management plan. The stockpile management plan has been revised and is currently being implemented. Stockpile management activities for 2010 include issuance of a design for installation of erosion and sediment control BMPs. Surfactants will be utilized for erosion control and new silt barriers will be installed along the perimeter of the piles.

Stockpile management activities for 2011 will include implementing the first phase of erosion and sediment control BMPs, monitoring their effectiveness, and planning for future needed activities.

BMP 5-4 Training and Outreach

Goal: Foster widespread knowledge of construction BMPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop internal training materials for plan review staff and inspectors	NA	NA	March 2010	Harbors Environmental Section	Developed in 2010. See Appendix M.
Conduct training for employees who are responsible for construction site inspections	Educate construction inspectors about proper selection, installation, inspection, and maintenance of BMPs	100% of construction site inspectors received education	March 2010	Harbors Environmental Section	Training conducted in March 2010
Provide educational materials for plan reviewers	Percent of plan reviewers receiving educational materials	100% of plan reviewers received educational materials	March 2010	Harbors Construction and Environmental Section	To be developed in 2011
Provide educational package to construction sites	Percentage of construction sites covered	100%	NA	Harbors Engineering Branch	To be developed in 2011
Post educational materials on Harbors website	Increase views to website	Increased views from previous year	NA	Harbors Web Master	To be posted in 2011

6.0 POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT



Permit Requirements

Vegetated Swale, Kahului, Hawaii

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce pollutants in storm runoff entering the permittee's small municipal separate stormwater sewer system from new development and redevelopment projects which disturb greater than or equal to one acre, including construction sites less than one acre that are part of a large common plan or development or site that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances, and other regulatory mechanism, including enforcement procedures and actions, that address post-construction runoff from new development and redevelopment projects,*
- (B) Structural or non-structural best management practices to minimize water quality impacts and attempt to maintain pre-development runoff conditions, and*
- (C) Procedures for long-term operation and maintenance of best management practices.*

6.1 POST-CONSTRUCTION STORMWATER MANAGEMENT PROGRAM

Harbors Division has developed a Post-Construction Stormwater Management Program as part of its SWMP to prevent polluted storm water discharges from areas of new development and significant redevelopment. This program includes project reviews based on the post-construction erosion control NPDES permit regulations and the Development Standards requirements. The purpose of the post-construction program is to provide a mechanism by which ongoing protection of storm water quality can be addressed and attained.

Post-construction storm water management is also addressed in part by the preceding minimum control measures: public education and outreach, public involvement and participation, and illicit discharge detection and elimination.

6.1.1 Construction Permit Review Process

As part of the NPDES program, HDOH CWB administers review of projects that are equal to or greater than one acre in size. Applicants for coverage under the Nationwide General Permit or Individual Storm Water Discharge Permits submit applications including descriptions of the project scope and schedule, contractor, past land use history, existing conditions and potential pollution sources, construction and post-construction site-specific BMPs.

Harbors Division's review process has the goal of maintaining or improving pre-development runoff conditions. As such, Harbors requires construction applicants to perform a pre- and post-development hydrological analysis to protect natural channels from erosion, to size storm drainage infrastructure, and to address flooding.

Harbors Division identifies controls that provide treatment and reduce storm water volume and velocity. Harbors Division also ensures that on-going maintenance of BMPs is provided in the plans and properly executed, as BMPs are not effective unless properly maintained.

No NPDES Permit and Low Impact Development Standards (LIDS) compliance applications were received in 2010. Please see BMP 6-1.

BMP 6-1 Review NPDES Permit Application

Goal: To ensure that long-term controls are in place to prevent degradation of storm water					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Review NPDES Permit and LIDS compliance applications	Percentage of applications reviewed	100% of applications	NA	Harbors Division Environmental, Design and Maintenance Sections	No applications received.

6.1.2 Low Impact Development Standards Plan

Harbors Division has developed a low impact development standard (see SWMP) that requires measures to reduce pollution discharges to the MEP from all new development and significant redevelopment projects. The LIDS requirements apply to all new development and significant redevelopment projects.

Significant redevelopment includes, but is not limited to expansion of a building footprint, or replacement of a structure; replacement of impervious surface that is not part of a routine maintenance activity; and land-disturbing activities related to structural or impervious surfaces. Where significant redevelopment will result in an increase of less than 50 percent of the impervious surfaces of a previously existing development, and the existing development was not subject to LIDS, the BMP design standards apply only to the addition, and need not be applied to the entire development.

Implementation of LIDS and amendments of TRPs and tenant lease agreements will follow the completion of the Final SWMP. Please see BMP 6-2.

BMP 6-2 Low Impact Development Standards Plan

Goal: Reduce pollution discharges to the MEP from all new development and significant redevelopment projects					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Implement LIDS and amend tenant lease agreements and TRPs as necessary	Percentage of necessary lease agreement and TRP amendments conducted	100%	TBD	Harbors Environmental Section, Design and Maintenance	To be released with Final SWMP

6.1.3 Structural and Non-Structural BMPs

Post-construction storm water quality efforts are currently addressed by Harbors Division through the following BMPs or integration of the following BMPs:

- ✓ Preserve undeveloped areas where such areas are not required by operations to be paved,
- ✓ Consider surface treatments for improved areas which retain rainfall and allow percolation rather than impervious surfacing which generates runoff, such as paver tiles in lieu of asphalt or concrete pavement,
- ✓ Preserve naturally occurring flat to low slopes in all areas, which minimize runoff concentration, quantity, velocity and erosive capability,
- ✓ Where runoff flows are concentrated, provide durable drainage systems sized to convey peak flows,
- ✓ Review construction plans to provide and maintain grading which limits the area of the drainage basin discharging into the harbor,
- ✓ Continuously monitor operations to ensure that major tenants using pier aprons adequately clean the aprons upon completion of loading/offloading activities,
- ✓ Implement structural BMPs that reduce the quantity of storm runoff at the Harbor,
- ✓ Operational areas will be paved with reinforced concrete or asphalt concrete, to prevent erosion. These surfaces will also allow spills of materials to be cleaned up,
- ✓ Maintain minimal to low slopes throughout improved areas (access roadways, piers and aprons) where surfaced with asphalt or reinforced concrete, which reduces runoff peak flow quantities and velocity.

Harbors Division evaluates current BMPs to determine if they sufficiently meet the requirements of the NPDES permit and, if they are lacking, Harbors Division requires tenants and contractors to implement the appropriate BMPs.

Post-construction storm water BMPs are evaluated by Harbors during tenant inspections. No new post-construction BMPs were implemented during 2010. Please see BMP 6-3.

BMP 6-3 Structural and Non-Structural BMPs

Goal: Implementation of LID BMPs					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Evaluate current BMPs	Percentage of BMPs evaluated	100%	Ongoing	Harbors Construction and Environmental Section, Design and Maintenance	BMPs were identified during tenant inspections
Enforce development & implementation of new post-construction BMPs	Percentage of site potential pollutants are prevented	100%	NA	Harbors Construction and Environmental Section, Design and Maintenance	No post-construction BMPs developed in 2010

6.1.4 Operation, Maintenance, and Inspections

Structural or non-structural BMPs are not considered effective, nor are MEP criteria met, unless a long-term operation and maintenance procedure is put into place and carried out. Upon completion of construction, assurance is required for the long-term operation and maintenance of structural and non-structural BMPs. This assurance program will be implemented by Harbors Division in 2011. Please see BMP 6-4.

BMP 6-4 Operations, Maintenance, and Inspections

Goal: To maintain effectiveness of BMPs through operations and maintenance plans					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Create database to track operation and maintenance practices	Create a database	Database has been created	NA	Harbors Environmental Section	To be created in 2011
Perform scheduled operation and maintenance practices	On-time completion of maintenance practices	100% of O&M has been confirmed conducted	NA	Oahu District	Identified BMPs will be documented and O&M will be confirmed in 2011
Inspect project for post-construction controls	Percentage of potential pollutants mitigated	Equal to maximum standard operating capacity	NA	Harbors Construction Environmental Section Inspectors and	To be inspected in 2011.

6.1.5 Stakeholder Education and Outreach, Employee Training

Tenant TRPs and tenant leases require maintenance of post-construction runoff control measures in their premises. An educational packet will be sent to all stakeholders, which include tenants and their contractors. The education package will include:

- ✓ A post-construction BMP template
- ✓ BMP Checklist
- ✓ Questions relating to post-construction storm water management on the TSI

While it is the responsibility of the tenant to ensure that their construction contractors are educated in Post-Construction considerations, Harbors will send educational material to contractors that are identified to be working on Harbors property. Please see BMP 6-5.

Harbors internal training will include guidance on the inspection of post-construction BMPs. Please see BMP 6-5. Inspection training also includes proper operations and maintenance of typical post construction BMPs, indicators of BMP failure, and inspection techniques.

BMP 6-5 Stakeholder Education and Outreach

Goal: Create awareness with stakeholders and employees to reduce post-construction run-off.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop post-construction educational package	NA	NA	NA	Harbors Environmental Section	Educational materials to be developed in 2011 after 2010 inspection data is compiled
Distribute educational packet in TSI Mailing	Percentage of tenants in receipt of mailing	100%	NA	Harbors Environmental Section	Educational materials were developed
Post information on Harbors Division website	Track number of views	Greater than previous year	NA	Harbors Web Master	Information to be posted in 2011
Conduct training	Percentage of employees and tenants trained	Greater than previous year	NA	Harbors Environmental Section	Training to be conducted in 2011

7.0 POLLUTION PREVENTION/GOOD HOUSEKEEPING



Permit Requirements

Hawaii Harbor (left) and Sand Island (right), January 2006

HAR Chapter 11-55 Appendix K Part 6.(a)(4). *Develop, implement and enforce an operation and maintenance program to prevent and reduce stormwater pollution from activities, including but not limited to, park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance that, at a minimum, includes the following:*

- (A) *Good housekeeping and other control measures, and*
- (B) *Employee and contractor training on good housekeeping practices, to ensure that good housekeeping measures and best management practices are properly implemented.*

7.1 POLLUTION PREVENTION/GOOD HOUSEKEEPING PROGRAM

A Pollution Prevention/Good Housekeeping Program has been developed with the ultimate goal of preventing or reducing pollutant runoff. The program includes an internal record-keeping system to schedule and document the maintenance activities performed.

7.1.1 Maintenance and Housekeeping Practices

Maintenance is on-going at tenant and Harbors facilities. Please see BMP 7-1. The following maintenance activities are conducted:

- ✓ Emptying dumpsters and remove and dispose of discarded objects, machinery or equipment.
- ✓ Prompt repair/replacement of malfunctioning dumpsters
- ✓ General maintenance and repair of public facilities is conducted in-house, while a contractor is selected for most large projects.

- ✓ Grounds maintenance personnel use fertilizer or herbicides in accordance with the manufacturer's instructions and in a manner that eliminates potential for runoff into the gutters, or storm drain system.
- ✓ Pier and apron cleanliness is assessed for debris and staining, and responsible parties notified to conduct cleaning as needed. Operators with leaking vehicles are required to park vehicles and equipment indoors/under cover, provide drip pans and repair leaks.
- ✓ Vehicle and equipment washing on Harbors property is prohibited unless performed in an approved wash facility.
- ✓ Clean up stains, spills, oil spots using dry cleanup methods. A record of spill cleanups can be found in Appendix J.

7.1.1.1 Sweeping Common Areas and Select Tenant Facilities

Sweeping prevents microscopic pollutants from entering the ocean by removing them before they flow into the storm sewer. Regular sweeping is performed by Harbors Grounds Maintenance. Grounds Maintenance has four sweepers. Sweeping is performed according to the following schedule presented in Table 7-1.

Table 7-1 Grounds Maintenance Sweeping Schedule

Location	Frequency	Duration (Hours)
KBPH Common Roadways & Apron	Twice per month	4

All waste from Honolulu Harbor and KBPH are combined and disposed of at the appropriate disposal contractors. Sweeper waste is disposed of at PVT Land Company and Waimanalo Gulch. This year approximately 215.22 tons of sweeper waste was removed for disposal. Grounds Maintenance is also responsible for collection of trash, leaves and other debris, which prevents debris from blocking storm drains and causing localized flooding. In 2010 approximately 7.13 tons of green waste was disposed of at Hawaiian Earth Products, a green waste disposal company.

7.2 WASTE COLLECTION

Grounds Maintenance picks up and disposes of other potential pollutants left in drop off areas or discarded illegally by the public in order to prevent pollution to the environment. This includes automobile, boat, and motorcycle lead acid batteries, scrap steel, discarded used tires, and construction debris.

Table 7-2 is a compilation of the different types of waste collected by Harbors Division and their disposal destinations. Quantities listed are the combined amounts from both Honolulu Harbor and KBPH. All disposal receipts are kept as supporting documentation of compliance with storm water regulations.

Table 7-2 Waste Destination and Amounts

Waste Type	Destination Facility	Amount
Lead Acid Batteries	Exide Technologies	130 batteries
Green Waste	Hawaiian Earth Products	7.13 tons
Refuse	Covanta Energy Honolulu Resource Recovery	110.81 tons
Sweeper Waste	PVT Land Company, Ltd.	178.28 tons
Sweeper Waste	Waimanalo Gulch	36.94 tons
Recycled Metal	Shnitzer Steel Hawaii Corp.	15.92 tons
Discarded Tires	Unitek Solvent Services, Inc.	139 tires

BMP 7-1 Maintenance and Housekeeping Practices

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Designate appropriate sweeping frequencies and perform sweeping	Percentage of facilities for which a written schedule is made and sweeping performed	100% of facilities	Common area schedule already in-place	Harbors Maintenance Management and Personnel; tenants	Common areas and facilities with contracts with Harbors are swept according to a schedule.
Designate appropriate drainage system maintenance and perform maintenance according to priority	Percentage of drainage systems that have been designated as urgent that have been cleaned	100% of urgent drainage systems	On-going	Harbors Maintenance Management and Personnel; tenants	Drainage priorities to be determined from 2010 inspection results.
Provide general instructions for identification, storage, use, collection and treatment of drainage and housekeeping educational materials to tenants	Percentage of tenants to which educational materials have been provided	100% of tenants	November 2010	Harbors Environmental Section	Instructions Provided in Harbors Storm Water training and mailing attachments
Provide training to employees	Percentage of employees to whom training has been provided	100% of employees	Ongoing	Harbors Environmental Section	Maintenance staff has been trained on general storm water pollution prevention. Please see Appendix K.

7.2.1 Tenant Education and Employee Training

Tenants and Harbor employees responsible for maintenance activities were educated about pollution prevention and good housekeeping practices at annual Harbors training workshops. Copies of the presentations given and records of attendance for tenants and employees are located in Appendices F and K, respectively. A video entitled, "Storm Watch," by EXCAL Visual Communications, was shown during the presentation and topics including the following were discussed:

- ✓ Proper methods for cleaning equipment;
- ✓ Proper labeling and handling of cleaners, solvents, and chemicals;
- ✓ Organized chemical storage;
- ✓ Responsible disposal of chemicals;
- ✓ Storage procedures for stored metals;
- ✓ Proper site drainage;
- ✓ Proper equipment/material storage;
- ✓ Timely equipment operation and maintenance; and
- ✓ Proper site maintenance.

Slides depicting examples of proper and improper BMPs were also presented to illustrate acceptable procedures.

BMP 7-2 Tenant Education, Employee and Contractor Education

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop educational materials and distribute to tenants	Percentage of tenants in receipt of educational materials	100% of tenants	September 2010	Weston	TSI attachments provided information and tips on housekeeping practices. Will develop contractor educational materials in 2011.
Hold training sessions for employees tasked with maintenance activities	100% of employees trained	100% of employees	Ongoing	Harbors Environmental Section	General awareness training conducted in 2010. Please see Appendix K.

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8.0 ADDITIONAL ANNUAL COMPLIANCE REPORT REQUIREMENTS



8.1 MODIFICATIONS TO THE SWMP

Per USEPA Order for Compliance, paragraph 1, the SWMP was revised to more comprehensively detail specific BMPs that will be implemented for each of the program minimum control measures, with underlying rationale for their selection and inclusion. Requirements to specify quantitative goals, provide metrics for improvement, and milestones for each of the BMPs; and the name or name or position title and affiliation of the person or persons responsible for implementation or coordination of each program component are now tracked through the ACR.

Harbors Division made appropriate modifications to reflect the above requirements with its 2009 Draft SWMP submission and is currently awaiting comments from the USEPA and HDOH to incorporate into the revised SWMP.

8.2 MODIFICATIONS TO THE SMALL MS4

No major modifications have been made to the Small MS4 during the 2010 calendar year. A copy of the outfall map is available in Appendix I.

8.3 SUMMARY OF PLANNED ACTIVITIES

8.3.1 Public Education and Outreach

- ✓ Use TSI responses to assess the effectiveness of the annual mailing program
- ✓ Add additional educational materials
- ✓ Record hotline inquiries and track response time
- ✓ Post signs that advise against dumping
- ✓ Post tenant training presentation on Harbors website
- ✓ Set up and solicit a volunteer cleanup or storm drain stenciling activity
- ✓ Sponsor a yearly advertisement in the newspaper
- ✓ Monitor ship cargo loading and unloading
- ✓ Develop and maintain an inventory of ships and agents responsible for tracking vessel operators

- ✓ Provide educational materials to vessel operators
- ✓ Keep tenant inventory up-to-date
- ✓ Conduct inspections of all tenants by December 31, 2010
- ✓ Add findings, follow-up to the database

8.3.2 Public Involvement

- ✓ Post SWMP to the Harbors website for public review and comment when completed
- ✓ Track comments and include them in the ACR for 2011

8.3.3 Illicit Discharge Detection and Elimination

- ✓ Create a comprehensive list of NSWDS and control measures for all tenants
- ✓ Continue procedures outlined in the IEP
- ✓ Conduct dry and wet weather ORI
- ✓ Perform follow-up on dry weather NSWDS observations

8.3.4 Construction Site Runoff Control

- ✓ Dependent on construction plan submittal
- ✓ Perform construction site plan and permit reviews
- ✓ Report and implement enforcement procedures against construction sites that are found to be out of compliance
- ✓ Perform construction site inspections to identify possible sources of pollution and to ensure BMP's are providing an appropriate level of pollution prevention. Inspections will specifically target the following:
 - ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
 - ✓ Require erosion prevention and sediment controls at all construction projects;
 - ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and
 - ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.
- ✓ Execute Stockpile Management Plan

8.3.5 Post-Construction Storm Water Management

- ✓ Inventory existing BMPs if found during tenant inspections
- ✓ Perform follow-up construction site permit reviews

- ✓ Enforce the incorporation of Low Impact Development Standards into all new development
- ✓ Ensure structural and non-structural BMP's are in place post-construction to minimize water quality impacts and attempt to maintain pre-development runoff conditions
- ✓ Ensure the longevity of post-construction BMP's via the creation of a long-term operation and maintenance programs
- ✓ Generate and distribute educational materials in annual mailings to tenants and maintain educational materials on the Harbors Division Stormwater Management website
- ✓ Conduct annual tenant training workshop

8.3.6 Pollution Prevention/Good Housekeeping

- ✓ Continue the ongoing maintenance of tenant and Harbor's facilities
- ✓ Harbors will expand its maintenance program to include preventative maintenance of the storm drainage system, internal record keeping and scheduling, and appropriate training of employees
- ✓ Perform annual inspections and training to ensure tenant's compliance with employee training, pollution prevention, and good housekeeping requirements

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APPENDIX A

HDOH 2007 LETTER OF NGPC EXTENSION

LINDA LINGLE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

In reply, please refer to:
DOH/CWB

03KB488.EXT

October 19, 2007

The Honorable Barry Fukunaga
Director
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

Attention: Mr. Frederick S. Nunes, P.E.
Engineering Program Manager
Harbors Division

Dear Mr. Fukunaga:

**Subject: Administrative Extension of
Notice of General Permit Coverage (NGPC)
Kalaeloa Barbers Point Harbor
Kalaeloa, Oahu, Hawaii
File No. HI 03KB488**

The Department of Health (Department), Clean Water Branch (CWB) acknowledges receipt of your Notice of Intent (NOI) and \$500 filing fee for coverage under the National Pollutant Discharge Elimination System general permit provisions, in accordance with the Hawaii Administrative Rules (HAR), Section 11-55-34.08.

The Department is unable to complete the processing of your project's NOI prior to the current NGPC expiration date. Therefore, in accordance with HAR, Section 11-55-34.09(d), the Department hereby administratively extends the subject NGPC until a notice of renewed coverage under the applicable general permit is issued or until notified by the Department, whichever occurs first. Please note that the Department may request you submit additional information in order to complete the processing of your NOI for the renewed coverage.

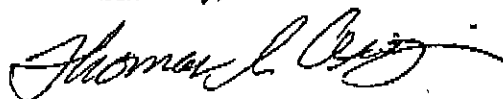
The Permittee shall not be held in violation of Hawaii Revised Statutes, Chapter 342D-6(h) and HAR, Chapter 11-55 during the pendency of its NOI, so long as it acts consistently with the NGPC presently granted. Any non-compliance with the conditions of the administratively extended NGPC may be subject to penalties of up to \$25,000 per violation per day.

It is the Permittee's responsibility to ensure that anyone working under this administrative extension of your NGPC understands and complies with the terms and conditions therein.

The Honorable Barry Fukunaga
October 19, 2007
Page 2

If you have any questions, please contact Ms. Joanna L. Seto, Supervisor of the Engineering Section, CWB, at 586-4309.

Sincerely,



FOR Chiyome Leinaala Fukino, M.D.
Director of Health

c: Mr. Randal Leong, DOT-HAR [via fax 587-1864 only]
Mr. Charles Schuster, EKNA Services, Inc. (w/Receipt No. 31732 for \$500 Filing Fee)

APPENDIX B

TENANT LEASE AGREEMENT AND TENANT REVOCABLE PERMIT

Lease Agreement Addendum 1

Environmental Compliance - Lessee's Duties

ADDENDUM 1

ENVIRONMENTAL COMPLIANCE – LESSEE'S DUTIES

A. Definitions.

For purposes of this Lease, Lessee agrees and understands that the following terms shall have the following meanings:

“Environmental Laws” shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

“Hazardous Substance” shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

B. Lessee's Activities and Duties.

1. Compliance with Environmental Laws. Lessee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the leased premises during the term of this lease, and Lessee's occupancy of, and activities on, the leased premises. This duty shall survive the expiration or termination of this lease which means that the Lessee's duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Lessee on the leased premises after the expiration or termination of this lease. Failure of the Lessee to comply with any environmental laws shall constitute a breach of this lease for which the Lessor shall be entitled, in its discretion, to terminate this lease and take any other action at law or in equity it deems appropriate. Lessee shall conform its operations with 49 CFR, Part 195 (Pipeline Safety), and shall install Time Domain Reflectivity (TDR) cable leak detection and monitoring equipment, which meet or exceed industry standards, adjacent to the fuel pipelines and related facilities, to provide an indication of any leak occurrence from any fuel pipeline or containment

device. In addition, the Lessee shall install a secondary containment wall/vaulting to prevent releases into the environment. The Lessee shall also develop, implement, and follow a written integrity management program that addresses the risks of each pipeline, and provides for periodic assessment of the integrity of each pipeline through internal inspection, pressure testing, or other equally effective assessment means, on a regular basis.

2. Hazardous Substances. Lessee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third person, on the leased premises (with the exception of the intended routine management of the petroleum products within the proposed pipeline) without first obtaining the written consent of the Lessor and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this lease.

3. Notice to Lessor. Lessee shall keep Lessor fully informed at all times regarding all environmental law related matters affecting the Lessee or the leased premises. This duty shall include, without limited the foregoing duty, providing the Lessor with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the leased premises and with evidence that the Lessee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation, or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Lessee by any federal or state authority, or individual, which relates in any way to any environmental law, or any hazardous substance, and the Lessee or the leased premises. As part of this written notice to the Lessor, the Lessee shall also immediately provide the Lessor with copies of all written communications from individuals, or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Lessee. At least thirty days prior to termination of this lease, or termination of the possession of the leased premises by Lessee, Lessee shall provide the Lessor with written evidence satisfactory to the Lessor that Lessee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Lessee that relate to the leased premises.

4. Notice to Authorities. Lessee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty days prior to the termination of this lease, or sixty days prior to Lessee's termination of possession of the leased premises, whichever occurs first, that Lessee intends to vacate the leased premises and terminate its operations on those leased premises. Lessee shall allow the agents or representatives of said authorities access to the leased premises at any and all reasonable times for the purpose of inspecting the leased premises, and taking samples of any material for inspection or testing for compliance with any environmental laws. Lessee shall provide copies of said written notices to Lessor at the time said notices are provided to said authorities.

5. Disposal/Removal. Except for materials that are lawfully sold in the ordinary course of the Lessee's business, Lessee shall cause any hazardous substances to be removed from the leased premises for disposal, and to be transported from the leased premises solely by duly licensed hazardous substances transporters, to duly licensed facilities for final disposal as

required by all applicable environmental laws. Lessee shall provide Lessor with copies of documentary proof, including manifests, receipts, or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.

6. Environmental Investigations and Assessments. The Lessee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the leased premises to determine the presence of any hazardous substance on, in, or under the leased premises as may be directed from time to time by the Lessor, in its sole discretion, or by any federal or state authority. The extent and number of any environmental investigations and assessments shall be determined by the Lessor or the federal or state authority directing said investigations and assessments to be conducted. Lessee shall retain a competent and qualified person or entity that is satisfactory to the Lessor or governmental authority, as the case may be, to conduct said investigations and assessments. Lessee shall direct said person or entity to provide the Lessor or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water, or other material that may be obtained for testing, and provide to the Lessor and the governmental authority written results of all tests on said samples upon completion of said testing.

7. Remediation. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the leased premises, Lessee shall, at its sole expense and cost, remediate the leased premises of any hazardous substances, and dispose/remove said hazardous substance in accordance with paragraph 4. This duty to remediate includes strictly complying with all environmental laws and directives to the Lessee to remediate said hazardous substance from the Lessor. This duty to remediate shall include replacement of any materials, such as soils, so removed with material that is satisfactory to the Lessor and governmental authority, as the case may be. In the event Lessee does not remediate the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the remediation is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of remediation.

8. Restoration and Surrender of Premises. The Lessee hereby agrees to restore the leased premises, at its sole cost and expense, including the soil, water and structures on, in, or under the leased premises to the same condition as the premises existed at the commencement of this lease, fair wear and tear to the structures excepted. In the event Lessee does not restore the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the restoration is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of restoration.

9. Lessor's Right to Act. In the event Lessee fails for any reason to comply with any of its duties under this lease or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the Lessor, Lessor shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Lessee

hereby grants access to the leased premises at all reasonable hours to the Lessor, its agents, and anyone designated by the Lessor in order to perform said acts and duties. Any cost, expense, or liability of any type that may be incurred by the Lessor in performing said acts or duties shall be the sole responsibility of the Lessee, and Lessee hereby agrees to pay for those costs and expenses, and indemnify the Lessor for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of Lessor's right to act, including litigation costs, attorneys fees, and the costs and fees for collection of said cost, expense or liability.

10. Release and Indemnity. Lessee hereby agrees to release the Lessor, its officers, agents, successors, and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments, or assessments that may be imposed or obtained by any person, agency, or governmental authority against the Lessee by reason of any hazardous substance that may be present by whatever means on, in or under the leased premises. The Lessee hereby agrees to indemnify, defend with counsel suitable to the Lessor, and hold harmless the Lessor from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the leased premises, the Lessor's ownership of the premises, or this lease, including the presence of any hazardous substance on the leased premises.

11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Lessee shall provide the Lessor with a Bond, or other security satisfactory to Lessor, in the amount of \$100,000.00 to assure removal of any hazardous substances, and the remediation and restoration of the leased premises during the term of, and at the conclusion of the lease so as to comply with the terms of this lease to the satisfaction of the Lessor, and in order to comply with environmental laws. Lessee shall provide written evidence that said Bond or security has been secured by the Lessee, which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.

12. Insurance. Effective at the commencement of this lease, Lessee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii, with limits of indemnity coverage no less than \$1,000,000. Said policy of insurance shall provide coverage for personal injury or damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Lessee. Said policy of insurance shall name the Lessor as an additional insured. Lessee shall provide proof of said insurance satisfactory to the Lessor which shall include, at a minimum, the coverage provided, and the term during which said policy shall be effective.

Excerpt from Standard Revocable Permit

Environmental Compliance - Permittee's Duties

26. SPECIAL TERMS AND CONDITIONS.

ENVIRONMENTAL COMPLIANCE – PERMITTEE'S DUTIES

A. Definitions.

For purposes of this Revocable Permit, Permittee agrees and understands that the following terms shall have the following meanings:

“Environmental Laws” shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

“Hazardous Substance” shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

B. Permittee's Activities and Duties.

30 Compliance with Environmental Laws. Permittee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the premises during the term of this Revocable Permit, and Permittee's occupancy of, and activities on, the premises. This duty shall survive the expiration or termination of this Revocable Permit which means that the Permittee's duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Permittee on the premises after the expiration or termination of this Revocable Permit. Failure of the Permittee to comply with any environmental laws shall constitute a breach of this Revocable Permit for which the State shall be entitled, in its discretion, to terminate this Revocable Permit and take any other action at law or in equity it deems appropriate.

40 Hazardous Substances. Permittee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third

person, on the premises without first obtaining the written consent of the State and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this Revocable Permit.

3. Notice to the State. Permittee shall keep the State fully informed at all times regarding all Environmental law related matters affecting the Permittee or the premises. This duty shall include, without limit to the foregoing duty, providing the State with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the premises and with evidence that the Permittee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Permittee by any federal or state authority or individual which relates in any way to any environmental law or any hazardous substance and the Permittee or the premises. This written notice to the State shall include the Permittee immediately providing the State with copies of all written communications from individuals or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Permittee. At least thirty (30) days prior to termination of this Revocable Permit, or termination of the possession of the premises by Permittee, whichever shall first occur, Permittee shall provide the State with written evidence satisfactory to the State that Permittee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Permittee that relate to the premises.

4. Notice to Authorities. Permittee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty (60) days prior to the termination of this Revocable Permit, or sixty (60) days prior to Permittee's termination of possession of the premises, whichever occurs first, the fact that Permittee intends to vacate the premises and terminate its operations on those premises. Permittee shall allow the agents or representatives of said authorities access to the premises at any and all reasonable times for the purpose of inspecting the premises and taking samples of any material for inspection or testing for compliance with any environmental laws. Permittee shall provide copies of said written notices to the State at the time said notices are provided to said authorities.

70 Disposal/Removal. Except for materials that are lawfully sold in the ordinary course of the Permittee's business and for which the Permittee has obtained all required authorizations from appropriate authorities including the prior written permission of the State to have said substance on the premises, Permittee shall cause any hazardous substances to be removed from the premises for disposal. This duty shall include the transportation of said hazardous substance from the premises solely by duly licensed hazardous substance transporters to duly licensed facilities for final disposal as required by all applicable environmental laws. Permittee shall provide the State with copies of documentary proof, including manifests, receipts or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.

80 Environmental Investigations and Assessments. The Permittee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the premises to determine the presence of any hazardous substance on, in, or under the premises as may be directed from time to time by the State, in its sole discretion, or by any federal or state authority. The extent

and number of any environmental investigations and assessments shall be determined by the State or the federal or state authority directing said investigations and assessments to be conducted. Permittee shall retain a competent and qualified person or entity that is satisfactory to the State or governmental authority, as the case may be, to conduct said investigations and assessments. Permittee shall direct said person or entity to provide the State or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water or other material that may be obtained for testing and provide directly to the State and the governmental authority at the sole expense of the Permittee written results of all tests on said samples upon completion of said testing.

90 Remediation. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the premises, or to have migrated from the premises, Permittee shall, at its sole expense and cost, remediate the premises, or any location off the premises to which it is determined that the hazardous substance has migrated, of any hazardous substances. Said duty to remediate includes the removal and disposal of said hazardous substances in accordance with paragraph 5. This duty to remediate includes strictly complying with all environmental laws and directives to remediate said hazardous substance issued from the State or any federal or State governmental authority charged with enforcing the Environmental laws. This duty to remediate shall include replacement of any materials, such as soils, removed with material that is satisfactory to the State and governmental authority, as the case may be.

:0 Restoration and Surrender of Premises. The Permittee hereby agrees to restore the premises, at its sole cost and expense, including the soil, water and structures on, in, or under the premises, to the same condition as the premises existed at the commencement of this Revocable Permit, fair wear and tear to the structures excepted. In the event Permittee does not restore the premises to the same condition as it existed at the commencement of the Revocable Permit, as determined by the State, the Permittee understands and agrees that the State may exercise its rights under the paragraph entitled State's Right to Act, and until such time as the restoration is complete to the satisfaction of the State, Permittee shall be liable for Revocable Permit rent in the same manner and amount as if the Revocable Permit had continued in effect during the period of restoration.

;0 State's Right to Act. In the event the Permittee fails for any reason to comply with any of its duties under this Revocable Permit or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the State, the State shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Permittee hereby grants access to the premises at all reasonable hours to the State, its agents and anyone designated by the State in order to perform said acts and duties. Any cost, expense or liability of any type that may be incurred by the State in performing said acts or duties shall be the sole responsibility of the Permittee and Permittee hereby agrees to pay for those costs and expenses and indemnify the State for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of State's right to act, including litigation costs, attorneys fees and the costs and fees for collection of said cost, expense or liability.

10. Release and Indemnity. Permittee hereby agrees to release the State, its officers, agents, successors and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments or assessments that may be imposed or

obtained by any person, agency or governmental authority against the State and/or the Permittee by reason of any hazardous substance that may be present by whatever means on, in or under the premises. The Permittee hereby agrees to indemnify, defend with counsel suitable to the State, and hold harmless the State from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the premises, the State's ownership of the premises, or this Revocable Permit, including the presence of any hazardous substance on the premises. Permittee understands and agrees that any assessments, fines or penalties that may be assessed against the Permittee or the State by reason of any environmental law violation concerning the premises shall be paid, complied with, and in every way satisfied by the Permittee and not the State.

11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Permittee shall provide the State with a Bond, or other security satisfactory to State, in the amount of \$ N/A to assure removal of any hazardous substances and the remediation and restoration of the premises during the term of, and at the conclusion of the Revocable Permit so as to comply with the terms of this Revocable Permit to the satisfaction of the State and in order to comply with environmental laws. Permittee shall provide written evidence that said Bond or security has been secured by the Permittee which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.

340 Insurance. Effective at the commencement of this Revocable Permit, Permittee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii with limits of indemnity coverage no less than \$500,000.00. Said policy of insurance shall provide coverage for personal injury and damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Permittee or the State. Said policy of insurance shall name the State as an additional insured. Permittee shall provide proof of said insurance satisfactory to the State which shall include, at a minimum, the coverage provided and the term during which said policy shall be effective.

APPENDIX C
TENANT INVENTORY

Hawaii Department of Transportation Harbors Division
 Tenant Inventory - Kalaeloa Harbor

Tenant	Other Business Names	Kalaeloa Facility Location	Type	Address	Address1	Inspection POC	Phone Number	Secondary Phone Number	E-mail
AES KALAELOA VENTURE LLC		91-650 Malakole Rd	Tenant	91-086 Kaomi Loop	Kapolei, HI 96707	Roland	(808) 682-4113		robert.shampoe@aes.com
ALOHA PETROLEUM, LTD.		91-119 Hanua St.	Tenant	91-119 Hanua Street	Kapolei, HI 96707	Joe Lovan	808-673-4296		rconner@alohagas.com
GLP ASPHALT, LLC		John Wayne Ave.	Tenant	94 KAMOKILA BLVD., STE 100	Kapolei, HI 96707	Sara Thomas	203-2805	348-4895	
HAWAIIAN CEMENT		91-055 Kaomi Loop	Tenant	99-1300 Halawa Valley Road,	Aiea, HI 96701	Dane Wurlitzer	532-3407	330-3910 c	dane.wurliter@hawaiiancement.com
HEALY TIBBITTS BUILDERS, INC.		Malakole St.	Tenant	99-994 Iwaena Street, Suite A,	Aiea, HI 96701	Glen Toyama	682-6104	368-1581 c	gtoyama@hawaii.rr.com
MARISCO, LTD.		91-607 Malakole Road	Tenant	91-607 Malakole Road,	Kapolei, HI 96707	neil	808-564-0730		bmccaffery@marisco.net
McCABE, HAMILTON & RENNY		Yes	Tenant	P.O. Box 210,	Honolulu, HI 96810	Andrew Souza	808-479-0356		andrewsouza16@msn.com
SAUSE BROS., INC.		John Wayne Ave.	Tenant	705 North Nimitz Highway,	Honolulu, HI 96817	Wayne Stachel for HNL, Mike for	HNL: (808)306-2177	KAL: 690-3412	Waynes@sause.com
THE PHOENICIAN, LLC		91-573 Makaole St.	Tenant	91-573 Malakole Road	Kapolei, HI 96707	John Gomersall	(808) 478-8031		the phoenician@thephoenician.net

APPENDIX D

EXAMPLE TENANT MAILING

LINDA LINGLE
GOVERNOR



MICHAEL D. FORMBY
INTERIM DIRECTOR

Deputy Directors
FRANCIS PAUL KEENO
JIRO A. SUMADA

10 OCT 15 AIO 103

HARBORS DIVISION


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION
79 SOUTH NIMITZ HIGHWAY
HONOLULU, HAWAII 96813-4898

IN REPLY REFER TO:

HAR-EE
8967.11

September 27, 2010

TO: HARBORS DIVISION TENANTS

FROM: DAVIS K. YOGI 
HARBORS ADMINISTRATOR

SUBJECT: TENANT SELF-INSPECTION FORM, STORM WATER COMPLIANCE
AWARENESS TRAINING, STORM WATER COMPLIANCE INSPECTION
NOTIFICATION

Your assistance is requested to provide essential information about your operational activities and storm water management practices that will aid the Department of Transportation Harbors Division to comply with federally mandated requirements of the Federal Water Pollution Act, commonly referred to as the Clean Water Act (CWA), and State of Hawaii requirements under the Department of Health, Hawaii Administrative Rules.

The regulations are defined in Title 40, Code of Federal Regulations (40 CFR), Parts 122 and 123, and in the State of Hawaii Administrative Rules, Chapter 11-55. The regulations establish a framework that governs the discharge of storm runoff into waters of the United States, and could impose penalties of up to \$27,500 per day per violation for non-compliance.

The Harbors Division has obtained coverage from the Department of Health to operate the storm drainage systems which discharge into Honolulu Harbor and Kalaeloa Barbers Point Harbor. We require your careful review and timely return of the attached Tenant Self-Inspection Form (Attachment 1), which is designed to help you and allow us to assess compliance with state and federal regulations as well as our discharge permit. This form needs to be completely filled out and returned, postmarked by **October 29, 2010**. Please send the completed form to the Harbors Division, Attention: Mr. Richard Min, Environmental Health Specialist, 79 South Nimitz Highway, Honolulu, Hawaii 96813. You may also deliver the form in person at one of the mandatory tenant training sessions detailed below. A Storm Water Best Management Practices handout (Attachment 2) is also included and must be furnished to all of your employees.

Should you fail to return a completed form, you may be subject to civil and/or criminal penalties.

This is also a notification of upcoming required awareness training pursuant to requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) Permits.

Mandatory awareness training will be provided for tenants of the Harbors Division, environmental managers and/or their representatives at the Honolulu Harbor Pier 2 Passenger Terminal on **November 3 and 4, 2010**. Please send at least one representative from your company to either of the two training sessions. Training sessions check-in starts at **8:30 am** and the presentation will be from **9:00 am to 11:30 am**. The training and parking are provided by the Harbors Division at no charge.

This is also a notification of an upcoming inspection of your facilities pursuant to requirements established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor Small Municipal Separate Storm Sewer System (MS4) Permits.

We will be contacting you directly to schedule the inspection. Inspection activities are anticipated to commence on or about November 8, 2010 and will be conducted on Mondays through Fridays between 0730 and 1730 hours. Key points of interest during the inspection are detailed in the attached inspection checklist. Inspections will be managed by the Harbors Division's Environmental Health Specialist Mr. Min, and Weston Solutions, Inc. (Mr. Mark Ambler, 387-6167).

If you have any questions, please contact Mr. Min, Harbors Environmental Health Specialist, at 587-1976 or Mr. Randal Leong, Harbors Environmental Engineer at 587-1962.

Attachment:

Tenant Self-Inspection Form
Storm Water Best Management Practices Handout
Tenant Inspection Checklist

STORMWATER BEST MANAGEMENT PRACTICES



Vehicle and Equipment Washing

Wash water from vehicle and equipment cleaning activities performed outdoors or in areas where wash water flows onto the ground can contribute toxic hydrocarbons, heavy metals, suspended solids, oils and greases, and other contaminants to stormwater run-off.

Releasing pollutants directly or indirectly into the storm drain system or the harbor by vehicle or equipment washing is a violation of the Harbor Municipal Separate Storm Sewer System (MS4) General Permit.

Proper employee training, BMP implementation, and pollution prevention methods are required for compliance with the Harbor's Storm Water Management Program (SWMP).

BMP Implementation

Primary Option:

Off-site washing: Utilize a commercial facility designed for NPDES compliance and permitted for discharge to the sanitary sewer system.

Secondary Option

On-Site Washing: Requires designated area designed to collect wash water for treatment/disposal and prevent stormwater run-on/off.

- Approval of Harbors Engineering Branch required
- Area should be paved, bermed, and covered
- Wash water either treated and discharged to sanitary sewer (permit required) or collected for off-site disposal
- No vehicle maintenance allowed in washing areas
- Use automatic shut off hose nozzles and biodegradable soaps where appropriate
- Train employees (document) on proper cleaning, maintenance, and wash water disposal procedures



The State Department of Transportation, Harbors Division, developed the Storm Water Management Program(SWMP) in compliance with the National Pollutant Discharge Elimination System (NPDES) and the State of Hawaii Municipal Separate Storm Sewer System (MS4) General Permit requirements.

The SWMP is administered by the Environmental Section under the Engineering Branch.

Phone: 587-1962

*Website:
<http://hawaii.gov/dot/harbors/library/storm-management-plan>*

Cover it; Clean it; Collect it; Keep our waters Clear!

STORMWATER BEST MANAGEMENT PRACTICES



Vehicle and Equipment Fueling

Transfer and storage of bulk petroleum products (i.e. gasoline, diesel, and motor oil) have the potential to pollute stormwater run-off. Implementation of BMPs is required to reduce or prevent petroleum pollutants from entering the stormwater drainage system. Both administrative controls (employee training) and structural controls (automatic shut-off/secondary containment) are necessary for an effective pollution prevention program.

BMP Implementation

- Utilize off-site commercial fueling facilities as the primary option for vehicle and equipment fueling
- Designate specific areas on-site for vehicle and equipment fueling when required
 - Avoid positioning upstream or adjacent to stormwater drainage features
 - Utilize impervious surfaces and containment designed to prevent stormwater run-on/off
 - Ensure spill kits are available (immediately clean up and properly dispose of used absorbent materials)
 - Equip dispensing nozzles with automatic shut-off controls
- Utilize drip pans if remote or mobile fueling is required
- Provide secondary containment for aboveground storage tanks
 - Containment required to be 110% of largest tank capacity
 - Containment required to have locking drain valve
 - Record containment inspections and uncontaminated rain water discharges
 - Develop Spill Prevention, Control, and Countermeasures (SPCC) Plan if required per Federal/State regulations
- Perform periodic inspections (document) of petroleum handling equipment and structural controls
- Train employees (document) on proper fueling and spill response responsibilities
- Report all spills exceeding 5 gallons and/or spills that impact surface water and document response procedures



The State Department of Transportation, Harbors Division, developed the Storm Water Management Program (SWMP) in compliance with the National Pollutant Discharge Elimination System (NPDES) and the State of Hawaii Municipal Separate Storm Sewer System (MS4) General Permit requirements.

The SWMP is administered by the Environmental Section under the Engineering Branch.

Phone: 587-1962

*Website:
<http://hawaii.gov/dot/harbors/library/storm-management-plan>*



LINE ITEM	FORM FIELD		
Company Information			
Business Name			
Street Address 1			
Street Address 2			
City, State			
Zip Code			
Business Owner / Operator			
Telephone Number			
Email Address			
Fax Number			
Tenant Since (month/year)			
Alternate Contact Name			
Tenant Information			
List Sub-tenants (if applicable)			
EPCRA Section 313 SIC Code			
Lease Number			
Permit Number			
Business Activity Description			
Pollution Prevention Info			
Do you use or store any oil products over 1,320 gallons total (over 24 55-gallon drums or bulk storage. Note: Count only containers over 55 gallons)?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Does your site have a SPCC Plan (Spill Prevention Control and Countermeasures) (Regulation-Title 40 CFR, Part 112)? If yes, please attach your current SPCC Plan, approved and certified by a registered Professional Engineer, if you did not submit it previously.	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Do you have a National Pollutant Discharge Elimination System Permit (NPDES) or Notice of General Permit Coverage (NGPC), if so what is the number? _____	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Do you generate any Hazardous Waste? If so identify the waste and provide your EPA Generator Identification Number. _____	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
What chemicals, which could pollute storm water runoff if released, are presently being stored on-site? (Attach additional sheets as necessary)			
Chemical Name	Quantity	Method of Storage	Outdoor / Indoor

LINE ITEM	FORM FIELD			
Pollution Prevention Info (Continued)				
Check possible pollutants in storm water from your facility/site. This should include any chemicals that are used, stored, or disposed of in the areas where potential pollutants may come into contact with rainwater and/or water runoff. Also include lubrication oil leaks from service equipment and vehicles.				
<input type="checkbox"/> Acid Waste	<input type="checkbox"/> Non-halogenated Solvents*	<input type="checkbox"/> Alkaline Waste	<input type="checkbox"/> Oils and Grease	<input type="checkbox"/> Arsenic
<input type="checkbox"/> Pesticides	<input type="checkbox"/> Cadmium	<input type="checkbox"/> Petroleum Hydrocarbons	<input type="checkbox"/> Chromium	<input type="checkbox"/> PCB's
<input type="checkbox"/> Copper	<input type="checkbox"/> Phenols	<input type="checkbox"/> Cyanide	<input type="checkbox"/> Selenium	<input type="checkbox"/> Halogenated Solvents
<input type="checkbox"/> Silver	<input type="checkbox"/> Herbicides	<input type="checkbox"/> Thallium	<input type="checkbox"/> Mercury	<input type="checkbox"/> Zinc
<input type="checkbox"/> Nickel	<input type="checkbox"/> Lubrication oil leaks	*(see 40 CFR 261.30 for a listing of non-halogenated solvents)		
Are there any other possible pollutants at your facility/site: (Identify them)				
Does your facility operate under a Department of Army Permit (Section 401 WQC)?			<input type="checkbox"/> YES	<input type="checkbox"/> NO
Are there any other Federal Permits that you are required to submit? If so identify the permits.				
Where does your storm water discharge?				
Do you have any floors/decks located in chemical storage areas			<input type="checkbox"/> YES	<input type="checkbox"/> NO
Do you have to submit SARA III reporting?			<input type="checkbox"/> YES	<input type="checkbox"/> NO
Please provide a copy of your facility plans/drawing.				
Attach copies of any storm water studies conducted at your facility.				

LINE ITEM	FORM FIELD	
<p>Non-storm water discharges can be activity-based (subtle) or overt (pipe connections). Activities based non-storm water discharges include, but are not limited to: wash water, diluted solvents/chemicals, floor/dock-apron sweeper waste, and spillage. Typical overt discharges include, but are not limited to: process wastewater, cooling water, and sanitary wastewater.</p> <p>Any post-construction runoff control measures (such as detention basins and vegetated swales) on tenant premises must be maintained by the occupant as per the tenant lease agreement. These post-construction runoff controls will be identified during annual on site tenant inspections.</p>		
Pollution Prevention Info (Continued)		
<p>Are you aware of any non-storm water discharges or unauthorized connections to storm drains or groundwater surfaces at your facility?</p> <p>If yes, please describe location and nature of discharge.</p> <hr/>		<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>Are floor drains or deck drains located in the areas of chemical storage or chemical use, present at your facility?</p> <p>If yes, where is the discharge point?</p> <p><input type="checkbox"/> Sanitary sewer <input type="checkbox"/> Ground surface <input type="checkbox"/> Unknown</p>		<input type="checkbox"/> YES <input type="checkbox"/> NO
Points of Contact for Water Pollution Reporting		
<p>The responsibility to maintain the cleanliness of Hawaii's coastal water lies with all Harbor tenants and users, and Hawaii residents. We all need to pitch in to anticipate, prevent and report inappropriate discharges. Reports of inappropriate discharges may be made to:</p>		
Point of Contact	Telephone Number	
Marine Traffic Control Center	808-587-2076	
Marine Cargo Specialist	808-587-2053	
City and County of Honolulu Environmental Concern Hotline	808-768-3300	
Department of Health, Clean Water Branch	808-586-4309	
Coast Guard	1-800-424-8802	
Feedback		
<p>We want to hear from you on how we can improve this program. Please fill out the comments section below to provide feedback on the information provided and the content of this form.</p>		
Did you find the information in this mailing useful?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
<p>Comments:</p> 		

Hawaii Department of Transportation Harbors Division Compliance, BMP and P2 Inspection Checklist

Harbor:	<u>Honolulu Harbor Pier:</u>	Date/Time:	<u>a.m.</u>
Tenant/User*/Business Name:		Phone Number:	
Tenant Address:		Risk Ranking:	<u>LOW</u>
Tenant Representative(s):		Basin or PMID:	
Vessel/Permittee		SIC or NAICS:	
Representative(s) Signature		Weather Conditions	
Inspector(s)**:			

STORM WATER		Compliance		Comments	
		YES	NO	N/A	
1	The user performs vehicle/vessel/equipment maintenance, washing, and/or stores industrial equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If yes, NPDES Permit No.: _____ Permit expiration date: _____
2	If required, a Discharge and/or Connection Permit application has been filed with the DOT Harbors Division.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of Submittal. Date of Approval. _____ _____
3	If required, the facility has a Storm Water Management Plan (SWMP) and /or Storm Water Pollution Control Plan (SWPCP). Applicable plans are available at the facility.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Records have been kept of spills and releases in SWPCP or SPCC Spill and Discharge Log.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	If an NPDES Individual Permit or NGPC covers the facility, reporting requirements under the permit have been completed and are up to date.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	The facility has submitted its annual Discharge Monitoring Report (DMR) for storm water discharges to the HDOH.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of Submittal. _____
7	The facility maintains accurate records of the monitoring data for a minimum of five (5) years.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8	The facility's total aboveground storage capacity (containers 55 gallons or larger) of petroleum products is less than 1,320 gallons. If no, the facility has a Spill Prevention Control and Countermeasure (SPCC) Plan signed by a professional engineer and has been updated within the last 5 years.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of SPCC Plan: _____
9	All changes to the personnel responsibilities, facility layout and potential pollutants source and activities have been updated in the SWPCP and/or SPCC.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10	Personnel have received annual storm water Best Management Practices (BMPs) awareness training, and training records are maintained at the facility.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of Last Training: _____

* User: Land or water user of Department of Transportation Harbors Division facilities.

** Inspector(s): Inspector must check and verify all reports and documentation.

Inspector Name:

Date:

Hawaii DOT, Harbors Division

11	Areas of the facility exposed to storm water aren't wet during dry weather and are free of stains. If no, take photos.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
12	Discharge points to storm drainage system do not exhibit unusual characteristics such as color, odor, sheen, foam, or floatables.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
13	Storm water drainage systems are cleaned regularly and are labeled with "No Dumping" placards to educate personnel that non-storm water is not to be discharged into the storm drainage system.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
14	Discharge pathway of all floor and facility drains is acceptable.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
15	Discharges to the sanitary sewer is authorized by an Industrial Wastewater Discharge Permit (IWDP), if required, and permit documents are on file at the facility. If not, describe where wastewater is processed and disposed.		IWDP Number: _____ Expiration Date: _____

MAINTENANCE AND REPAIR		YES NO N/A	Comments
16	Maintenance is performed in an authorized area and clean up activities do not impact storm water.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
17	Greasy or leaky equipment is stored under cover or with drip pans.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
18	Fluids and batteries are removed from salvage equipment before storage.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
19	Hazardous material substitutions have been explored. If so, list or give examples.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
20	Maintenance logs are available for inspection.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
21	Maintenance employees have received awareness training on storm water BMPs.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Date of Last Training: _____
22	Existing products and materials are used before purchasing or using additional ones of the same kind.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

FUELING		YES NO N/A	Comments
23	Fueling area engineering controls and BMPs are effective in preventing storm water run on/runoff.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
24	Secondary containment devices for fixed and mobile fueling areas are adequate to contain spills.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
25	Structural controls, such as sumps, oil/water separators, and containment areas are being maintained properly.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
26	Fueling areas are free of unattended stains and spill cleanup practices/materials (Spill Kits) are adequate.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
27	Visible piping, tanks, and hoses do not exhibit signs of leakage, wear, or malfunction. Inspection log available for inspection	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
28	Fuel-handling employees are trained on fueling BMPs, spill cleanup practices, and the content of the SPCC plan.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Date of training: _____

Inspector Name:
Hawaii DOT, Harbors Division

Date:

VEHICLE, VESSEL, AND EQUIPMENT WASHING		YES NO N/A	Comments
29	Washing takes place in a designated area and is designed to prevent storm water run on/runoff.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
30	Discharges from washing activities are authorized by permits if required, and permit documents are on file with DOT Harbors Division. Vessel has a EPA Vessel General Permit.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	If yes, Permit No.: _____ Permit expiration date: _____
31	Wash water treatment system, such as sumps, oil/water separators, and reclamation systems are maintained and operational.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
32	Cleaning agents and equipment are stored properly. Environmentally preferred products are used where possible. List product used.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
33	Solid wastes from washing activities are disposed of properly.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

OUTDOOR MATERIAL HANDLING		YES NO N/A	Comments
34	Loading areas are designed and located to minimize impacts to storm water drainage system.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
35	Loading areas are free of unattended stains or pavement degradation indicating poor material handling practices. If no, take photos.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
36	Adequate plans and spill cleanup materials are on hand to address spills and leaks due to material transfers.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
37	Material handling employees and/or forklift operators have been trained on material handling BMP's.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Date of training: _____

CONTAINER STORAGE		YES NO N/A	Comments
38	Facility has aboveground storage tanks (AST's) or underground storage tanks (UST's) including hydraulic lift tanks, emergency generator day tanks, fuel storage, and used oil storage tanks. Proper maintenance, training, leak tests, notifications, and inspections are up to date. For tanks greater than 1,100 gallons, inventory is monitored daily.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
39	Facility had notified the HDOH UST program office of all UST's located in-site. HDOH has issued a "No Further Action" statement for the closure of any UST at the facility.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
40	AST meets or exceeds the National Fire Protection Association (NFPA) requirements.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
41	Storage area has adequate secondary containment and integrity protection.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
42	Containers are compatible with materials stored, free of damage, and labeled correctly, and not stored past allowable hold times. Lids are kept closed and secured when not in use.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
43	Bulk product storage containers are equipped with overflow protection alarms or automatic shutdown pumps.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Inspector Name:
Hawaii DOT, Harbors Division

Date:

MATERIAL AND WASTE HANDLING AND DISPOSAL		YES NO N/A	Comments
44	Waste are disposed properly, Records are kept and hazardous waste generator status is known. Facility has an Environmental Protection Agency (EPA) hazardous waste generator identification number and follow appropriate regulations/requirements (CESQG, SQG, LWG). Submit copy of EPA's letter.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Waste Generator ID Number: _____
45	Hazardous waste and used oil storage areas have adequate secondary containment and integrity protection.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
46	Personnel who handle hazardous waste and/or universal waste or come into contact with hazardous waste/universal waste are trained and training records are documented, and past training logs are available at the facility.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Date of Last Training: _____
47	Containers are compatible with materials, free of damage, labeled correctly.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
48	Storm water accumulation in secondary containment areas is minimized, managed, disposed of correctly, and logged.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
49	Waste storage areas are free of unattended spills or degradations indicating poor waste handling practices.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
50	Materials such as grease, oil, antifreeze, brake fluid, cleaning agents, hydraulic and transmission fluid, solvents, paints, batteries and filters are recycled or disposed of properly.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
51	Out-of-service, spent lead acid batteries are protected from contact with stormwater runoff, and placed in secondary containment.		
52	Dumpsters and recycle bins are kept closed when not in use.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
53	Potential pollutants are stored under covered areas.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
54	Waste reduction opportunities have been explored and implemented.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

PIERS, BUILDINGS, AND GROUNDS HOUSEKEEPING		YES NO N/A	Comments
55	Spills are cleaned thoroughly. Petroleum spills are cleaned until water added to spill area does not produce sheen.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
56	Good housekeeping controls are implemented to contain debris and pollutants generated by building maintenance activities.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
57	All work areas and storage areas are neat and clean.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
58	Paved surfaces are swept vs. washed down and sweepings are disposed of properly.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
59	There is no dirt/debris accumulation/buildup in parking areas.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
60	Fertilizers, pesticides, and herbicides are applied according to manufacturer's instructions and not applied before or during a rain event.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
61	Storm water drainage system is maintained regularly.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
62	Excessive watering of landscaped areas is avoided.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Inspector Name:
Hawaii DOT, Harbors Division

Date:

OIL/WATER SEPARATORS MAINTENANCE		YES NO N/A	Comments
63	Operation and maintenance of oil/water separator is adequate and wastes are disposed of properly. Maintenance log/disposal manifest available for inspection	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

RUNOFF RETENTION BASINS		YES NO N/A	Comments
64	Catch basins are clean and free of debris and stains.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
65	Sediment build up in the basin is monitored, removed when necessary, and disposed of properly.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

EMERGENCY SPILL CLEANUP PLANS		YES NO N/A	Comments
66	Tenant SPCC/Emergency Spill Cleanup Plan is adequate and being implemented effectively.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
67	Spill kits are in high-risk areas and are appropriately stocked.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
68	Spill kits are inspected and replenished monthly or after kits are utilized.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
69	Employees have been trained in spill prevention and response and spill and training records are maintained on site.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Date of training: _____
70	The National Response Center (NRC) Phone Number is available on-site for immediate reporting of spills. NRC (800) 424-8802	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

CONSTRUCTION		YES NO N/A	Comments
71	Construction activities have occurred at the facility since the last inspection	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
72	Construction plans have been submitted and reviewed by the Department of Transportation Harbors Division. Refer to form to be used by the construction inspectors.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

EPCRA		YES NO N/A	Comments
73	Facility is required to report chemical inventory (Tier II) and/or Toxic Release Inventory (TRI) Report. If yes, supply a copy of the report(s).	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Inspector Name:
Hawaii DOT, Harbors Division

Date:

ADDITIONAL COMMENTS	
No.	Alleged Violation or Corrective Action

INSPECTION PHOTOGRAPHS	
No.	Photo Description

Inspector Name:
Hawaii DOT, Harbors Division

Date:

APPENDIX E

TENANT SELF INSPECTION DATABASE

Hawaii Department of Transportation Harbors Division
 Tenant Self Inspection - Kalaeloa Harbor

Tenant	Activity	Lease Number	Permit Number	SIC Code	NPDES Permits	SARA III	Other Federal Permits
AES KALAELOA VENTURE LLC	Marine Cargo Handling	H-89-14				No	Non-covered source permit (NSP) No. 0289-01-N
ALOHA PETROLEUM, LTD.	Bulk Fuel Storage	H-96-1; H-89-11		5171	HIR80A998	No	Clean Air Permit 0220-01-C 0220-04-N
GLP ASPHALT, LLC							
HAWAIIAN CEMENT	Portland Cement import and distribution	H-88-36; H-98-10	H-88-1540	5032	Exempt Maritime Facility-	No	
HEALY T BBITTS BUILDERS, NC.	Construction Storage Yard		H-06-2538;H-92-1783	237990		No	No
MARISCO, LTD.	Dry Dock/ Ship Repair	H-90-10	H-00-2224;H-99-2186;H-96-1901		HI-0021786	Yes	N/A
McCABE, HAM LTON & RENNY	Repair Shop		H-99-2160; H-96-1911; H-93-1820; H-90-1630			No	No
SAUSE BROS., INC.	Maintenance and Repair Support for Tug and Barges as well as Logistics		H-01-2261; H-94-1833; H-93-1823; H-93-1800			No	None
THE PHOENICIAN, LLC	Small boat repair facility	201150200	GP2002-05-0317		HI R20B748	Yes	No

APPENDIX F

HARBORS TENANT TRAINING RECORDS

Weston Solutions, Inc

Suite 2301
841 Bishop Street
Honolulu, HI 96813
808-275-2900
Fax: 808-585-7378

HDOT HARBORS STORMWATER MANAGEMENT TENANT TRAINING November 3, 2010



SIGN-IN SHEET

COMPANY	PRINT NAME	SIGNATURE	EMAIL	VOLUNTEER FOR CLEAN-UP?
Robert's Hawaii	Andrew Lind	<i>[Signature]</i>	andrew.lind@robertshawaii.com	
HARDY CONST CO	MELVIN HARDY	<i>[Signature]</i>	HARDY001@hawaii.net	
HONOLULU MARATHON ASSN	RONALD CHEN	<i>[Signature]</i>	jchen@hawaii.net	
ARITA POUTSON CON CON	STEVE JORGENSEN	<i>[Signature]</i>	STEVE@ARITAPOUTSON	
NATHAN SUTHER	NATHAN SUTHER	<i>[Signature]</i>	Nsuther@hawaii.com	
Concrete Caribing	KEOLA GOO	<i>[Signature]</i>	keolag@gloverhd.com	
JAS. W. GLOVER LTD.	Irene Yang	<i>[Signature]</i>		
Queen's Supermarket	Clint Kagami	<i>[Signature]</i>	Clintkagami@hotmail.com	
Kagami Inc	RON RICHARDSON	<i>[Signature]</i>	ron.richardson@dhx.com	
DHX	MICHAEL CHANG	<i>[Signature]</i>	mchang@petrospect.net	
PETROSPECT, INC.	J PEDRO	<i>[Signature]</i>	jpedro@hawaii.gov	
HPD - PAL	Tim Sawyer	<i>[Signature]</i>	tsrv@cleanislands.org	
Clean Islands Council	Chris Hillman	<i>[Signature]</i>	chris@tropicalis.com	
Tropical T's Inc	Daniel Otani	<i>[Signature]</i>	dtotani@gmail.com	
United Fishing Regs	LAYNE KANE	<i>[Signature]</i>	kanotrucking@hawaii.com	
I.T. KANO TRUCKING	NATHAN KAPULE	<i>[Signature]</i>	nkapule@hawaii.com	OK
Hawaii Engineering	DANIEL DICKERSON	<i>[Signature]</i>	napkin@hawaii.net	
OCEDAR L&P				

11/3/10

VOLUNTEER FOR
CLEAN-UP?

COMPANY

PRINT NAME

SIGNATURE

EMAIL

REBECCA FINE COLLECTION BA REC REBECCA FAR

R.S. NAKAMURA WELONG RODNEY S. NAKAMURA

MILLER INDUSTRIES RODNEY S. NAKAMURA

ALUMINUM SHARE BOOF RODNEY S. NAKAMURA

HAWAIIAN CEMENT DAVE WURLTZEN

PAINTING OCEAN FRONTIER ARLEN WALSTON

GLP Asphalt Sara Thomas

ERIK BUILDERS INC. Dianne Ambrose

FLAVORFUL AGUA FROST YAL LIN

AALA SUIP SVC. Rodney Taniamore

ATHLETIC GENERAL KEN NISHIKITA

UNITED FISHING AGENCY NELSON ABECILLA

ISLAND MOVERS BRIAN TUKUHAU

WRECKTIME LLC CENTAL CARLYLE DEWIE

STEIN KE PROS. INC. Robert Steink

TROPICAL J'S INC. Chris Hillman

turned in ranting
TST
presumably

Follow up
sterilize

ARLENE POP. HAWAII.COM

stthomas@gracepacifiCorp.com

ivale-nia-mbrose@hawaiiank.net

flim30@aol.com

salz@calalaship.com

ken.k.nishikita@hawaii.gov

Nelson & Abecilla @ Gmail.com

ryanf@hawktree.net

TKUG@MADITCR.COM

cell 478-9777-488-9668

Hillman.cc15@gmail.com yes

Weston Solutions, Inc

Suite 2301
841 Bishop Street
Honolulu, HI 96813
808-275-2900
Fax: 808-585-7378

HDOT HARBORS STORMWATER MANAGEMENT TENANT TRAINING November 5, 2010



SIGN-IN SHEET

COMPANY	PRINT NAME	SIGNATURE	EMAIL	VOLUNTEER FOR CLEAN-UP?
Hi-Tel Roofing	Guthrie Jeffers		gabitec@pdx.com	
Pacific Shipyard	THOMAS ATKINSON		tatkinson@pacificshipyards.com	
American Guard Svc	Mic hae I Burgan		scm200@yahoo.com	
Arita Paulsen Gen Con	Gary Wallen		gary@arita-paulsen.com	
Unitex Maritime	TOMT REEST		Toni@unitex.com	
Custom Built Metals	STEVE GUYNES		Steve@CustomBuiltMetals.com	
PIL Water Taxi	Aukunihno Uauia		IPA	
ED Yanashiro	Haron Yamud		2477870	ok
JFC International, Inc	Rae Miyasaki		rmiyasaki@jfc.com	
Norman's Tractor Service	Maresa Hoosiba		nts96819@hotmail.com	
Projects Enterprises, Inc	Kaun Tina Lee		klee@projects808.com	
ISS/NHK	Jenida Kikaula		jenida.kikaula@iss-shipping.com	
ISS/NHK	Sandy Kusumoto		Sandy.Kusumoto@iss-shipping.com	
ProPank	Todd Santos		tsantos@propack.org	
PM Realty/ATM	Madene Dale		mdaley@p.maq.com	Yes
ALOHA COBRAINER	Richard Pierson			Yes
CONTROL TOWER LLC	MELWIN TSUE		ctech@lava.net	
AES TRAINING	SAMANTHA AND JUDITH		SAMANTHA.GUINID@AES.COM	Yes
KANAKA				

11/5/10

VOLUNTEER FOR CLEAN-UP?

EMAIL

SIGNATURE

PRINT NAME


COMPANY

EAST WEST MEXICO	BERTSON BROS	Bergman Glad	NO
PER WATER TAXI	GUY CHING	TAXI PI LOTO HAWAII	tel.net
Phoenix LLC	Greg Powell	The Phoenix	the phoenix
BLAND MOVERS	Derek Guasara	Derek Guasara	com
Horizon Lines	DANIE MARTIN	Smartline	horizonlines.com
NANAKULI HOUSING	BERT BARBER	Bert Barber	
AROSE ELECTRIC	VERL O'HARA	Verl O'Hara	
ATLANTIS SUBMARINES	VERNA VELL	Vernie's Adventures	com
ATLANTIS SUBMARINES	Jon Chapman	Chapman's	atlantisadventure
PM Realty Group	GAIL LUM	glum@pmg.com	
DON'S MUSEUM	DEBRA KURZUM		
DON'S SAKUKI	DAVID GAN		
Tropical Roofing	Jason Refora	Jason Refora	
Motson Navigation	Keahi PARCH	keahip@motson.com	
AMERICAN MARINE CORP.	DAVID GRIFFITH	dgriffith@americanmarinecorp.com	
HAWAII STEVEDORES	HOWARD E. HAGER	HAGER AT HAWAII STEVE DORSET, COM	
AES KAHALO	Roberto P. KAHALO	Tom@KHI.COM	
Aloha Cargo Transport	Tom Crescenzi	randy.guine@amsig	
American Marine Corp.	Randy Guine	" " "	
PENCO	Randy Guine	" " "	

State of Hawaii Water Pollution Rules and Regulations: Industrial Storm Water Pollution Prevention at DOT Harbors

November 3 and 4, 2010

By: Matthew Kurano
Department of Health
Clean Water Branch



Industrial Storm Water Pollution Prevention: DOH's Role

DOH-Clean Water Branch

- The Clean Water Branch (CWB) protects the public health of residents and tourists who enjoy playing in and around Hawaii's coastal and inland water resources. The CWB also protects and restores inland and coastal waters for marine life and wildlife. This is accomplished through statewide coastal water surveillance and watershed-based environmental management through a combination of permit issuance, monitoring, enforcement, sponsorship of polluted runoff control projects, and public education.




State waters off of Lanai

Industrial Storm Water Pollution Prevention: DOH's Role

DOH-Clean Water Branch

- Issues NPDES permits for:
 - Construction Sites (1 acre or more)
 - Industrial Facilities
 - Municipal Sewage Treatment Plants
 - Storm Sewer System Owners
 - Misc. Facilities that discharge to State waters




Discharge from State waters

Industrial Storm Water Pollution Prevention: Unlawful Discharges

Hawaii Revised Statutes (HRS) § 342D-50(a):

- No person, including any public body, shall discharge any water pollutant into State waters, or cause or allow any water pollutant to enter state waters, except as in compliance with the provisions of this chapter, rules adopted pursuant to this chapter, or a permit or variance issued by the Director.




Discharge from a Pier to State waters

Industrial Storm Water Pollution Prevention: Regulations

Hawaii Revised Statutes (HRS) § 342D-30(a):

- Any person who violates this chapter, any rule, or any term or condition of a permit or variance issued pursuant to this chapter shall be fined not more than **\$25,000 for each separate offense**. Each day of each violation shall constitute a separate offense.




Storm Water Pollutant Source at an Industrial Facility

Industrial Storm Water Pollution Prevention: Regulations

Hawaii Revised Statutes (HRS) § 342D-33: Knowing Violations

- Any person who knowingly violates this chapter or any rule adopted by the department pursuant to this chapter, or any condition in a permit issued under this chapter or any requirement imposed in a pretreatment program... **shall be punished by a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than 3 years, or by both**.



Discharge of a pollutant from an industrial activity to State waters

Industrial Storm Water Pollution Prevention: Harbors Specific

DOT-Harbors has an NPDES Permit which requires:

- Public Education
- Public Involvement
- Illicit Discharge Elimination
- A Construction Storm Water Control Program
- A Post Construction Storm Water Management Program
- A Pollution Prevention Program



Discharge of a pollutant from a Harbor Facility to State waters

Industrial Storm Water Pollution Prevention: Harbors Specific

Harbors is required to :

- Have a rigorous enforcement system
- Find and eliminate any illicit discharges
- Insure no polluted discharges occur from the DOT MS4
- Implement a construction monitoring program
- Utilize Post Construction BMPs



Discharge of a pollutant from a Harbor facility to State waters

Industrial Storm Water Pollution Prevention: Harbors Specific

However :

- DOT-Harbors MS4 permit is not a shield
- Individual Responsible Persons (e.g. Tenants) can be subject to enforcement actions by the EPA, DOH, DOT-Harbors, and INDEPENDENT CITIZENS



DOT-Harbors: Accumulated Sediment at Kalaeloa Harbor

Industrial Storm Water Pollution Prevention: Harbors Specific

EPA Has Issued an Administrative Order against DOT-Harbors:

- DOT-Harbors MS4 Program was audited by the EPA on December 8, 2008
- EPA issued an Administrative Order on June 18, 2009



DOT-Harbors: Sediment Tracking

DOT-Harbors MS4 Program MUST Improve

Industrial Storm Water Pollution Prevention: Penalties

In the last two years...

The DOH-CWB has issued penalties of:

- \$500.00 to 1.73M
- For discharges of polluted storm water
- For failing to comply w/ permit conditions
- For sewer cross connections
- For construction related discharges



Illicit Discharge at a Harbor Facility

Industrial Storm Water Pollution Prevention: Your Responsibility

You Will Be Held Responsible


1. Do Not Discharge Pollutants to State waters
2. Comply with all NPDES permit conditions
3. Follow DOT-Harbors Environmental Rules



Harbor facility during inspection

Industrial Storm Water Pollution
Prevention: The CWB

Department of Health
Clean Water Branch
919 Ala Moana Blvd.
Room #301
Honolulu, HI 96814
Ph: (808) 586-4309



HAWAII STATE
DEPARTMENT
OF HEALTH




2010 TENANT STORM WATER POLLUTION PREVENTION AWARENESS TRAINING

Hawaii Department of Transportation – Harbors Division

Introduction

- Hawaii Department of Transportation – Harbors Division
 - Mr. Carter Luke PE – Engineering Program Manager
 - Mr. Randal Leong PE – Environmental Engineer
 - Mr. Richard Min – Environmental Health Specialist
- Weston Solutions, Inc.
 - Mr. Mark Ambler PE, PMP
 - Mr. Joe Weidenbach
- Hawaii Department of Health
 - Mr. Matthew Kurano

Upcoming Award

2011 Environmental Manager of the Year

*for Exemplary Management of a Tenant Stormwater
Program Focused on Directing Meaningful Change*

Agenda


- Regulatory Background
- Harbors (Small MS4) General Permit Requirements
 - Public Education
 - Public Participation
 - Illicit Discharge Detection and Elimination (IDDE) Program
 - Construction Site Run-Off Control
 - Post Construction Control
- Video Presentation (20 mins) – “Storm Watch”
- Pollution Prevention and Good Housekeeping
- Facility Inspections
- Enforcement Response Program
- Contact Information
- Questions and Answers

Recent Program History

- HDOT Harbors General Permit – May 19, 2003
- EPA Audit – December 2008
- Finding of Violation – June 18, 2009
- Tenant Inspections – November 2009
- Stormwater Management Plan Revision – Dec 2009

Federal Regulatory Background

- Clean Water Act (40 CFR 100-149)
 - 1972 Clean Water Act– Swimmable, Fishable
 - 1987 Amendments – NPDES (National Pollutant Discharge Elimination System) regulations
- NPDES – Environmental Protection Agency Regulatory Authority
 - Phase I issued in 1990 – Individual Permit
 - Industrial Facilities (PENDING MODIFICATION AND RENEWAL)
 - Construction Sites > 5 acres (PENDING MODIFICATION AND RENEWAL)
 - Medium and Large Municipal Separate Storm Sewer System (MS4)
 - Phase II issued in 1999 – General Permit
 - Small MS4
 - Construction Sites > 1 acre, < 5 acres (PENDING MODIFICATION AND RENEWAL)
- MS4 – conveyance that is owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.; designed or used to collect or convey stormwater; and not combined with sewer.



Hawaii Regulatory Background

- NPDES regulatory authority is administered by Hawaii Department of Health
- Hawaii Administrative Rules (HAR)
 - Title 11 Chapter 55 (11-55)
 - Water Pollution Control
 - Appendix K
 - NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Discharges from Small MS4s
- Harbors Division – Notice of General Permit Coverage (NGPC)
 - HI 03KB482 – Honolulu Harbor Permit
 - HI 03KB488 – Kalaeloa Barbers Point Harbor Permit



General Permit Requirements

Minimum Control Measures

Each Minimum Control Measure Requires:

- Written Plan – SWMP
- BMP Implementation
- Training
- Reporting
- Enforcement

- Public Education & Outreach
- Public Participation & Involvement
- Illicit Discharge Detection & Elimination
- Construction Site Runoff Control
- Post-Construction Runoff Control
- Pollution Prevention & Good Housekeeping

General Permit Allowable Discharges*

- Water Line Flushing
- Landscape Irrigation
- Diverted Stream Flows
- Rising Ground Water
- Uncontaminated Ground Water Infiltration
- Uncontaminated Pumped Ground Water
- Discharges from Potable Water Sources
- Air Conditioning Condensate
- Crawl Space Pumps and Footing Drains
- Dechlorinated Swimming Pool Water
- Discharges from Fire Fighting Activities

* Unless discharges "Cause or contribute to water quality objective exceedances."

Understanding Pollutant Transport and Management Strategies

Understanding the source, vehicle, and route of storm drain pollution is key to cost effectively managing facilities and discharges.

- Source (leaking container, building material, spill)
- Vehicle / Carrier (irrigation water, wash water, rainfall, A/C condensate, ground water, etc)
- Route (direct dumping, swale, storm drain)

Storm Water Best Management Practices

What Are They?

Administrative and structural controls are utilized to

- remove,
- contain, or
- treat pollutants

through

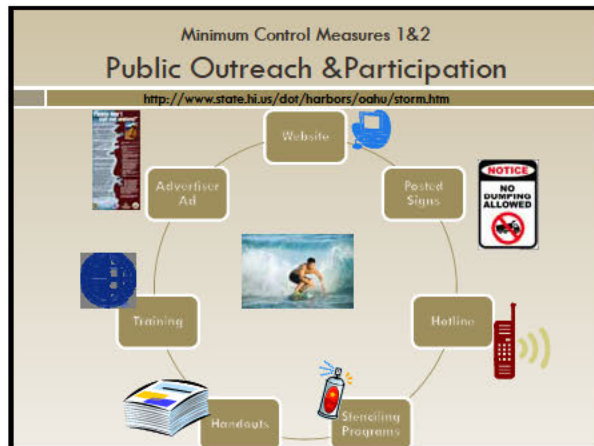
- Source removal,
- Preventative containment, and
- Capture/treatment methods.

- Administrative Controls
 - Laws and ordinances
 - Leases and tenant agreements
 - Inspections
 - Housekeeping
 - Material Handling and Storage Practices
 - Maintenance Schedules
- Structural Controls
 - Secondary Containment
 - Berms
 - Washracks
 - Silt Fencing
 - Exclusion
 - Drain Inlet Protection, etc...

Minimum Control Measure 1

Tenant Self Inspection Form





Minimum Control Measure 3 Illicit Discharge Detection & Elimination (IDDE) Program

Common sources of illicit discharges include -

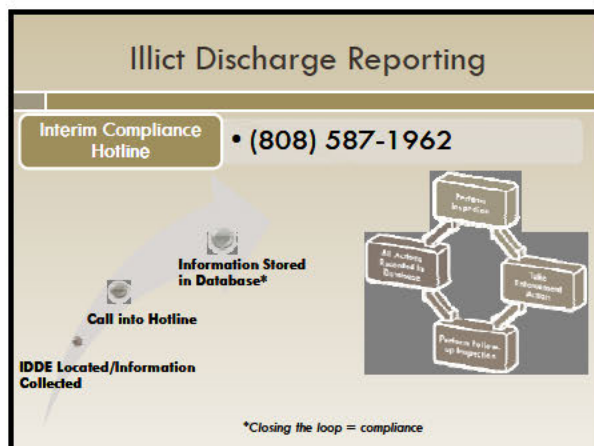
- Sewage inflows from leaking sewage collection and transmission lines
- Commercial carwash and laundry wastewater
- Floor washing to shop drains
- Commercial Vehicle and Equipment washwater
- Potable line flushing that runs across hardscapes
- Pumping of vaults or trenches
- Construction activities
- Liquid wastes containing oil, paint, and process water
- Waste water from manufacturing or equipment processes
- Pesticides, herbicides, and other industrial chemicals

Minimum Control Measure 3 IDDE and Outfall Inspections

- Dry Weather Outfall Inspections will be performed to detect illicit discharges into outfalls.
- Dry Weather Flow indicates non-storm water discharges. Tracking these drain systems back to the source is an efficient way to detect Illicit.
- Utilize sampling, instruments, and observations to discern ground water vs potable water and presence of nutrients, toxic substances, sediments, bacteria, and general chemistry to "fingerprint" sources for abatement proceedings.

Illicit Discharges Threaten our Waters

REPORT IT!!
587-1962



Minimum Control Measure 4 Construction Site Runoff Control

Common Problems Found During Inspections

- No sediment controls on-site
- No erosion prevention
- No sediment control for temporary stockpiles
- No inlet protection
- No BMPs to minimize vehicle tracking on to the road
- Vehicle Tracking onto Streets
- Improper solid waste or hazardous materials management
- Dewatering at the construction site
- Poorly maintained BMPs


Waste Management (Source Control)

Exposed Waste Management
Subject to Rainfall and Birds





Unsecured / Unlocked
Dumpster – Trespassing –
Illegal Dumping

Waste Management



Secured Enclosure – Minimized
Illegal Dumping. Add non-
galvanized corrugated roofing to
prevent rain runoff.



Secured Enclosure – Minimized
Illegal Dumping. Add non-
galvanized corrugated roofing to
prevent rain runoff.

ZERO RUNOFF SOLUTION

Stockpiling (Source Control and Pollution Prevention)



Use Silt Fences to Contain
Stockpiles



Cover Stockpiled Material
*Covers provide dust
suppression and prevent
polluted runoff.


Silt Fencing (Treatment)



Inspection and maintenance of
BMP's is as important as
installing them.
Improperly maintained silt
fences are ineffective.






Silt Fencing



Vegetated Swale!!



Storm Drain Inlet Protection (Pollution Prevention)

Storm Drain Inlet Protection




Cleaning Equipment (source control)






Construction Equipment Cleaning




Minimum Control Measure 5 Post-Construction Design Features

Goal: Eliminate and minimize exposure of pollutants to storm water and to capture and infiltrate / treat.

Minimum Control Measure 5 Post-Construction Controls


Considering water quality impacts early in the design process can provide long-term water quality benefits and lower administrative management costs.

- Low-Impact Development
- Green Design
- Site Specific/Innovative BMPs
- Infiltration
- Filtration
- Retention/Detention
- Isolation/Separation of Runoff from Processes

Retrofits you can use to manage your site:

- Green Parking
- Green Roofs
- Rain Barrels / Cisterns
- Downspout Disconnects
- Protection of Natural Features
- Urban Forestry
- Grassed Swales
- Infiltration Basin/Trench
- Permeable Pavement
- Porous Asphalt Pavement
- Sand and Organic Filters
- Vegetated Filter Strip
- Dry Detention Ponds
- In-Line Storage
- Storm Water Wetland

Minimum Control Measure 5 Post-Construction Structural Controls




Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

VIDEO Presentation

"Storm Watch"


Municipal Stormwater Pollution Prevention

EXCAL Visual Communications



Pollution Prevention & Good Housekeeping

- Inventory of Activities and Potential Pollutants
- Proper Labeling and Handling of Cleaners, Solvents, and Chemicals
- Organized Chemical Storage
- Responsible Disposal of Chemicals
- Storage Procedures should include covering stored metals
- Proper site drainage should be in place
- Proper Equipment/Material Storage
- Timely Equipment O&M
- Site maintenance and cleaning procedures should be in place. They should address environmental considerations and they should include BMP's



Minimum Control Measure 6
Pollution Prevention & Good Housekeeping



Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

Stocked metals should be covered to prevent heavy metal intrusion into waterways



Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

All drums should be in good, working condition. Inspections should be held regularly and any drums with damage should be replaced immediately.



Minimum Control Measure 6
Pollution Prevention & Good Housekeeping

Access to chemicals should be restricted to personnel trained in proper handling and disposal procedures; all must be labeled and have MSDS available

Flammable chemicals, solvents, and paints should be stored in a fireproof locker. Chemicals must be separated by compatibility



Minimum Control Measure 6 Pollution Prevention & Good Housekeeping

Do not overfill



Trash bin kept covered when not in use



Keep trash and debris from accumulating around the bin, because storm water will carry it out to the ocean

Vehicle and Equipment Washing (Source Control)

- Allowed only at designated facilities
 - Water must be contained
 - Facility should be covered
 - Oil/Water Separator
 - Connected to Sanitary Sewer
- Wash water is NOT allowed outside/uncontained
 - Includes discharge of mop water
 - Includes rinsing or cleaning of waste bins
 - Always seek approval for discharge to sanitary sewer

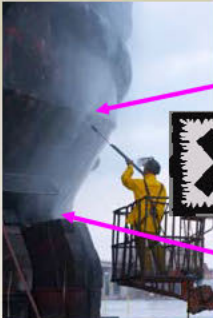
See the BMP flier attached to TSI Mailing

Vehicle and Equipment Washing (Pollution Prevention)






Vehicle and Equipment Washing (Pollution Prevention)



No grinding, painting, welding, or sand blasting



Containment and Collection is required!

Vehicle and Equipment Washing



Permitted Vehicle Wash Rack





Temporary Only: Wash water and debris require off-site disposal; Minimize detergents and overspray




Vehicle and Equipment Washing

ZERO RUNOFF SOLUTION



DRY cleaning methods uses "dry ice" to clean without water



Dry ice cleaning more effective, won't damage non-stainless fasteners, safe for electrical equipment, non-conductive.

Spill Prevention and Response

- PREVENTION FIRST!!
- Proper Storage
 - Secondary Containment
 - Protected from equipment damage
 - Install shut-off controls, overfill protection, etc...
 - Stored away from storm drains
- Proper filling and handling procedures
 - Use drip pans
 - Use drop cloths

Control

Contain

Capture

Spill Prevention and Response

SPILL RESPONSE

- Assess the Spill
 - What Spilled
 - How Much Spilled
 - Where did it Spill; Surface Water Impacted?
 - Toxic or Hazardous Substance?
- Stop the release
- Contain the Spill
- Clean the Spill
- Properly Dispose of Materials
- Report All Spills
 - Small Spills should be tracked internally
 - Harbors Environmental
 - Hawaii Department of Health
 - U.S. Coast Guard
 - Large Spills



Secondary Containment



Secondary Containment



Secondary Containment (Pollution Prevention)

- Keep locked to prevent unwanted discharge
- If excess storm water collects, inspect for sheen and/or test storm water to determine whether there are contaminants present



- If no contaminants present, supervise and document discharge of clean storm water and relock valve

Spill Prevention and Response



Procedures should focus on prevention first. Then clean up if spills still occur

Best Management Practices – Vehicle Pans/Pads



Tenant Facility Inspections

- Site Inspections will be conducted for all tenants before the end of the year (2010)
 - 1 week notification
 - Starting with 50 high priority tenants
 - Inspection Checklist Provided
 - Inspection Report and Findings to be provided following Site Visits
 - Follow-up Inspections will be scheduled if required
 - Serious Violations will require immediate action
 - Depending on the severity of the discharge, regulatory actions may be pursued.
 - All inspection results and actions will be added to our database.
 - Risk ranking developed based on findings

Site Inspections



Construction Site Inspections

Site Inspections will be held on active construction sites to ensure NPDES is being properly followed.

Inspections will focus on proper BMP Management to reduce illicit discharges into the Harbor's storm drain system.



Construction Site Inspections



Enforcement Response Program

Regulatory Mechanisms

- Hawaii Administrative Rules (HAR)
- Hawaii Revised Statutes (HRS)
- Tenant Leases/Revocable Permits
- 40 CFR - Clean Water Act & NPDES
- Other Applicable State & Federal Regulations

Penalties for Lack of Compliance (dependant on severity of violation)

- Written Notices
- Citation with Monetary Fines
- Stop Work Orders
- Abatement by Harbors Division with Reimbursement by the Responsible Party
- Lease/Permit Termination
- Referral to HDOH or Other Appropriate Regulatory Agency
- Monetary Fines – Up to \$27,500 Per Day!!!
- Mandatory Minimum Penalties under CWA.

References

- ❏ <http://www.threesheetsofwater.com/files/2009/02/willboatpressurewastrop.jpg>
- ❏ <http://www.internationalroofing.com/wp-content/gallery/pressure-washing/dwd6800.gif>
- ❏ <http://china.com/TruckTrailer2.jpg>
- ❏ <http://radix.vobloga.com/0101170/images/water/stormwateroutlet.jpg>
- ❏ <http://vsm.mimanga.com/dsdetox/drain1600x1200.jpg>
- ❏ <http://www.brownwater.com/brownwater/archives/garage-pollution-0409.jpg>
- ❏ http://cache1.asset-cache.net/es/74877867?_v=1&c=W5A&w=&h=2&d=17A4ADFFD89CF193395A77F763D9PCD7BE336CAA8630F003A7CFF610D5846C25
- ❏ <http://cc.yx.edu.cn/CNC/images/garage.jpg>
- ❏ http://bb.goght.com/_gc761Wf744/86TQ4neTOH/AAAAAAAAAAb/Xe6uWGqH/DS02844.JPG
- ❏ http://www.dndvaldfab.com/yahoo_site_admin/assets/images/83_Fa st_Locker_007.4102510_large.JPG
- ❏ <http://www.baywindings.com/spring04/photos/evsda.jpg>
- ❏ http://www.waag.org/environent/stormwaterworkshop/images/Stormwater_Retention_Pond1.jpg
- ❏ <http://www.cill.org/nem2004/images/evsda.jpg>
- ❏ http://images.google.com/imgres?imgurl=http://www.courier-journal.com/blog/burghers/uploaded_images/DAY_0610SH/1DOWN_06_M5-728783.jpg&imgrefurl=http://www.courier-journal.com/blog/burghers/2007_06_01_archive.html&img=D_yw9RdZFDa91m89C6c9nRfI=&h=1067&w=1600&as=377&ht=&start=1&um=1&tmid=EQW9FP548j29M&itoh=100&itmw=150&prev=/images%3Fq%3Dconstru+on%2Bpollu+on%26imgsz%3D%26imgfr%3D%26%26%3Durl%26um%3D1

APPENDIX G

HARBORS ENVIRONMENTAL ENGINEERING SPILL

DOCUMENTATION FORMS

Oahu District
HAR-EE Spill Documentation Form

Regardless of amount of spill, all spills of oils, hazardous materials, or unknown chemicals must be immediately recorded on this form.

A. Spill Information (to be provided by HAR-OCT Staff)

Recorded 6/25/10, W Time/Date Environmental Section Notified 6/25, 11:13 >
Person reporting Berry Kim Phone 72076
Location of Spill KBPH, P-5 Time of Spill 11:20 Date of Spill 6/25/10
Substance spilled Black oil Amount Spilled unknown Duration of Spill _____

Media into which the release/spill occurred:

☐ Air ☐ Ground ☐ Concrete/Asphalt ☐ Stream ☒ Ocean Other: _____

Responsible Party Vessel Atlantic Olive

Cause of spill _____

Description of clean-up actions _____

Notifications Made: USCG, DOT

Additional information _____

B. Environmental Section Information

>CERCLA RQ (40CFR 117, 302) ☐ (Y/N)

HEERO Notification (808) 586-4249/after hrs 247-2191

Notified at ____:____ on ____/____/____

Written Notification to be submitted: ☐ (Y/N) by ____/____/____

LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439

Notified at ____:____ on ____/____/____

NRC Notification (800-424-8802)

Notified at ____:____ on ____/____/____

HAR-EE staff _____

Report number _____

Person notified _____

HAR-EE staff _____

Person notified _____

HAR-EE staff _____

Report number _____

Oahu District
HAR-EE Spill Documentation Form

Regardless of amount of spill, all spills of oils, hazardous materials, or unknown chemicals must be immediately recorded on this form.

A. Spill Information (to be provided by HAR-OCT Staff)

Recorded 11/3/09 Time/Date Environmental Section Notified Oct 30, 12:12 pm

Person reporting Berry Kim Phone 72076

Location of Spill Phoenician, K BPH Time of Spill 12:00t Date of Spill Oct 30

Substance spilled Diesel Amount Spilled ~ Duration of Spill _____

Media into which the release/spill occurred:

 Air ☒ Ground Concrete/Asphalt Stream Ocean Other: _____

Responsible Party Phoenician

Cause of spill _____

Description of clean-up actions _____

Notifications Made: _____

Additional information _____

B. Environmental Section Information

>CERCLA RQ (40CFR 117, 302) (Y/N)

HEERO Notification (808) 586-4249/after hrs 247-2191

Notified at : on / /

Written Notification to be submitted: (Y/N) by / /

LEPC Notification (808) 523-4121 (Honolulu)/Fax 524-3439

Notified at : on / /

NRC Notification (800-424-8802)

Notified at : on / /

HAR-EE staff _____

Report number _____

Person notified _____

HAR-EE staff _____

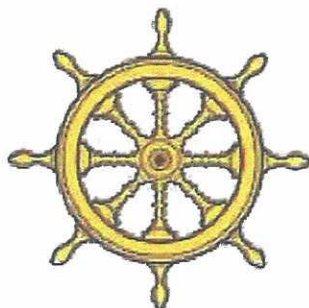
Person notified _____

HAR-EE staff _____

Report number _____

APPENDIX H

VOLUNTEER ACTIVITY FLIER AND ATTENDANCE RECORD



Get The Drift & Bag It!

Also Celebrating the 25th Annual International
Coastal Cleanup

September 25, 2010

WIKOLIANA EDUCATIONAL EXCURSIONS
(Site Coordinator-Honolulu Harbor)

What: Get The Drift & Bag It and also the 25th Anniversary of the International Coastal Cleanup

When: Saturday, September 25, 2010

Where: Honolulu Harbor, Pier 7
Wikoliana Educational Excursions

Contact: Captain Jeff Lansdown
(808)230-0940

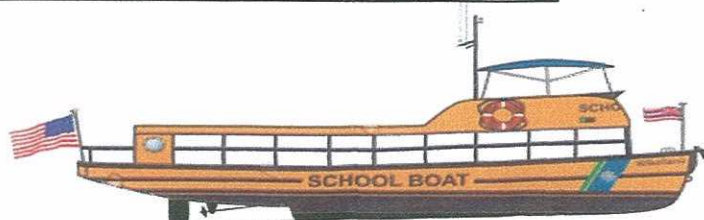
Site Coordinator: Wikoliana
Educational Excursions (808)230-0940

Online: www.wikoliana.com
www.getthedriftandbagit.com
www.coastalcleanup.org

The Mission of the Wikoliana Harbor Stewardship Program:

To remove debris from Honolulu harbors, expand public awareness and education of the value of Honolulu's marine and maritime environment, and generate enthusiasm for future endeavors with schools and community organizations

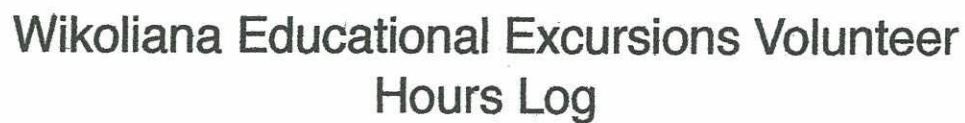
To volunteer or receive information about the **Wikoliana Harbor Stewardship** or the **Wikoliana Education Excursions Programs**, please call **(808) 230-0940**, or email: **wikoliana@gmail.com**





Wikoliana Educational Excursions Volunteer Hours Log

Name	Date	Activity Where are you from? (ethnicity or visiting from...)	HOURS
Waukers Ellen	9/25/10	Belgium	
TAINI LADYDIANE	9/25/10	Cameroon	
TATIANA ZASHEVA	9/25/10	Russia	
Shchedrov Igor	9/25/10	Russia	
Galukhina Diana	9/25/10	Russia	
Kurbanov, Bartyr	9/25/10	Turkmenistan	
Saali, Eetu	9/25/10	Finland	
Strayan, Naysra	9/25/10	LEBANON	
Chandra Braeger	9/25/10	Colorado U.S.A.	
Yahya Gilany	9/25/10	Egypt	
Helmi Merkhi	9/25/10	Tunisia	
Siyuan Shen	9/25/10	China	
Sheikh Rahman	9/25/10	Bangladesh	
Sadman Mondalib	9/25/10	BANGLADESH	

[illegible]

APPENDIX I

UPDATED SMALL MS4 OUTFALL MAP

APPENDIX J

HARBORS GROUND MAINTENANCE SPILL CLEANUP LOG

JANUARY 2010

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

NO OIL SPILLS FOR JANUARY 2010

DON KAULEINAMOKU, MAINTENANCE AND REPAIR SUPERVISOR II OF HAR/OCG-DOT- STATE OF HAWAII



February 2010

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

THERE WERE NO OIL SPILLS FOR FEBRUARY 2010

DON KAULEINAMOKU

MAINTENANCE AND REPAIR SUPERVISOR / DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/ OCG

MARCH 2010

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

THERE WERE NO OIL SPILLS FOR THE MONTH OF MARCH 2010.

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II OF HARBOR DIVISION SANITATION AND GROUND

STATE OF HAWAII/ DEPARTMENT OF TRANSPORTATION

April 2010

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

NO OIL SPILLS FOR APRIL 2010

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II OF HARBOR DIVISION/HAR-OCG/DOT

MONTHLY SPILL LOG

MAY 2010

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved

NO OIL SPILLS IN MAY 2010

DON KAULEINAMOKU OF HAR/OCG DOT/HARBOR DIVISION MAINTENANCE AND REPAIR SUPERVISOR II

MONTHLY SPILL LOG OCTOBER 2010

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
10/22/2010	HYDRAULIC FLUID	32 GALLONS	DOT/HARBORS C-225 STREET SWEEPER	NO		AT OR AROUND 0700 THE STREET SWEEPER C-225 HAD A HYDRAULIC PROBLEM THE HYDRAULIC LEAK STRETCHED ABOUT 100 YARDS IN MATSON BASEYARD AT PIER 52 A LABOR, STREET SWEEPER OPERATOR, A STATE SUPERVISOR AND 4 MATSON EMPLOYEES USED 10 OIL PADS AND 4 BAGS OF OIL SPONGE TO CLEAN THIS SPILL. USED PADS AND OIL SPONGE WAS PUT INTO A TRASH BAG AND WAS DISPOSED INTO HARBORS REFUSE CONTAINER TO BE DISPOSED AT H POWER AREA WAS SECURED AT 0900 HOURS
10/29/10	oil	1/2 quart	unknown	no		on 10/29/10 time 1:25pm labor crew cleaned oil that's coming out from under oil containment center. soaked up oil with pads & used oil granules to soak up the balance.

MONTHLY SPILL LOG JUNE 2010

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
6/18/10	PAINT	ONE gallon	UNKNOWN	NO		At 0712 hours, refuse crew found paint coming out of our refuse container at pier 36. Refuse crew put oil pads on the paint surface that covered a 3x6 feet area. Refuse crew contacted supervisor. Refuse crew disposed 2.5 gallons and 3 - one gallon paint containers that was empty. Labor crew relieved refuse crew. Labor crew disposed soiled pads into trash bag. Labor crew then put down oil sponge dust onto paint and spread it around to absorb the paint on the ground. Labor crew swept the used oil sponge dust and put it into a trash bag. Labor crew then disposed both trash bags that had the soiled oil pads and used oil sponge dust into refuse container.
						Site was secured at 0824 hours. Labor crew put new oil pad under hole in refuse container and weighed it down so it is secured.
						1/2 BAG SPONGE & 28 OIL PADS
6/21/10	OIL SOMEONE DUMPED WASTE OIL INTO REFUSE CONTAINER.	ONE gallon	UNKNOWN	NO		At 0540 hours, the maintenance and repair supervisor noticed oil mix with water from the rain under 4 REFUSE CONTAINERS at pier 18. The supervisor contacted the maintenance & repair supervisor I via cell phone, who contacted the labor and refuse crew about this hazzord. The labor crew arrived and used pads and oil sponge dust to clean up the mix oil and water at this site and put the soiled oil pads & used oil sponge dust into a trash bag and disposed it into the pier 18 REFUSE CONTAINER
	OIL CONTAINMENT CENTER IS LOCATED NEXT TO OIL SPILL					
	MTERIAL USED WERE 1/2 BAG OF OIL SPONGE AND 20 OIL PADS					The work to contain the oil Spill started at 07 30 hours and site was secured at 0800 hours

DON KAULEINAMOKU MAINTENANC AND REPAIR SUPERVISOR II OF DOT/HARBOR DIVISION/HAR-OCG
SANITATION AND GROUNDS UNIT OFS STATE OF HAWAII

MONTHLY SPILL LOG

July 2010

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
7/7/10	engine oil	1 quart	unknown	no		8:18am refuse crew noticed oil coming from under engine at pier 18 custodian can. cleaned oil with u4, water & pads. worked in dry with oil absorbent dust. put 101 pads under engine. will take engine to pier 30 staging area on 7/8/10.
7/22/10 pier 37	engine oil	1 quart	unknown	no		7:29am refuse crew cleaned oil spill coming from refuse container. cleaned spill with u-4, water, pads & oil absorbent.
7/22/10 pier 16	engine oil	1 cup	unknown	no		8:16am refuse crew cleaned oil spill with u-4, water, oil pads & absorbent that was under refuse container.
7/30/ 2010	ENGINE OIL	1 QUART	UNKNOWN	NO		AT OR AROUND 0920 HOURS ON 30 july 2010 AT PIER 18 OIL CONTAINMENT CENTER 55 GAL. DRUMS OF WASTE OIL IS FULL AND OVERFLOWING OUT OF BARREL. LABOR CREW CLEAN SIDES OF BARREL AND PUT OIL PADS ON TOP OF BARREL TO SOAK UP BALANCE. NOTIFIED ACTING HARBOR MASTER BILL DAVIS ABOUT SITUATION . BILL DAVIS CONTACTED CONTRACTOR TO PUMP WASTE OIL OUT

DON KAULEINAMOKU
 MAINTENANCE AND REPAIR SUPERVISOR II
 SANITATION AND GROUND UNITS- HAR/OCG
 DEPARTMENT OF TRANSPORTATION
 HARBOR DIVISION
 STATE OF HAWAII.

August 2010

~~DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II OF STATE OF HAWAII/DOT /HARBOR DIV.~~
HAR/ocg

September 2010

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
9/27/10	1/2 gallon oil	1/2 g.	unkown	no		time;8:20am cleaned oil spill that was coming from plastic container next to pier 18 containment. used 4-u solution, water soaked up with oil pads & scrubbed dry with absorbent dust. disposed waste material in trash bag. sent to h-power.

MONTHLY SPILL LOG

1 of 2 pages
OCTOBER 2010

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
10/7/10	OIL	1 GALLON	UNKNOWN	NO		AT 0744 HOURS, REFUSE CREW ENCOUNTERED AN OIL SPILL AT PIER 18. OIL SPILL WAS 10'x5'. 3 MAN REFUSE CREW SECURED AREA AND USED 10 OIL PADS TO SOAK UP OIL. CREW THEN USED A 1/5 OF A BAG OF OIL SPONGE UPON THE LEFT OVER SPILL AND WORK THE OIL SPONGE INTO THE OIL SPILL TO SOAK UP LEFT OVER OIL. USED OIL SPONGE WAS PLACED IN TRASH BAG AND DISPOSED OF INTO REFUSE TRUCK THAT WENT TO H POWER. AREA WAS SECURED AT 0757 HOURS
10/20/2010	OIL	ONE GALLON	UNKNOWN	NO		AT 1225 HOURS, LABORS FOUND OIL SEEPING FROM THE SIDE/BOTTOM OF THE OIL CONTAINMENT CENTER AT PIER 18. LABORS SECURED AREA BY SHORING WHERE THE OIL WAS SEEPING OUT BY SPREADING AGAINST THE OIL CONTAINMENT CENTER WITH 3/4 OF THE OIL SPONGE DUST. LABORS LEFT OIL SPONGE AGAINST THE OIL CONTAINMENT CENTER SIDE/BOTTOM WHICH WAS STILL SOAKING THE SLOW OIL LEAK. COULD NOT GET TO THE SOURCE OF THE LEAK DUE TO 55 GALLON DRUMS WHERE FILLED WITH WASTE OIL.

NOVEMBER 2010

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
11/18/10	oil	1/4qrt	n/a	n		12:40pm at pier 18 oil cont. center labor crew cleaned oil thats coming out from under cont. center with pads & granals
11/24/10	oil	1/4qrt.	n/a	n		12:31pm pier 18 oil cont. center 55 gallon drum overflow with used oil. cleaned around drum with pads, 4u & dust absorbent. also put pads on drum to plug hole.

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II.
DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/OCG/STATE OF HAWAII

MONTHLY SPILL LOG

December 2010

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify Water Body	Describe Clean-up Method, Disposal, and Group and Individuals Involved
12/27/10	oil	1/4 qrt.	unkown	n		PIER 36 OIL CONTAINMENT CENTER FOUR 55 GALLON DRUMS FULL OF OIL OVERFLOWED BECAUSE OF RAIN OVERNIGHT. COVERED WITH TRASH BA CLEANED OIL WITH PADS & DUST.


DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II
DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/OCG/ STATE OF HAWAII


APPENDIX K

HARBORS EMPLOYEE TRAINING RECORDS

Suite 2301
841 Bishop Street
Honolulu, HI 96813
808-275-2900
Fax: 808-585-7378

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**EMPLOYEE STORM WATER
POLLUTION PREVENTION
AWARENESS TRAINING**

Hawaii Department of Transportation – Harbors
Division

Introduction

- Hawaii Department of Transportation – Harbors Division
 - Mr. Randal Leong – Environmental Engineer
 - Mr. Richard Min – Environmental Health Specialist
- Weston Solutions, Inc.
 - Mr. David Johnson
 - Mr. Joe Weidenbach
 - Mr. Mark Ambler

Agenda

- Regulatory Background
- Purpose of NPDES
- Storm Water BMPs
- Stormwater Documents – SWMP and ACR
- Minimum Control Measures
- Video Presentation (20 mins) – “Just Passing Through”
- Pollution Prevention and Good Housekeeping
- Enforcement Response Program
- What Harbors Employees Can Do
- Contact Information
- Grounds Maintenance Records for 2009
- Questions and Answers

Federal Regulatory Background

- Clean Water Act (40 CFR 100-149)
 - 1972 Clean Water Act– Swimmable, Fishable
 - 1987 Amendments – NPDES (National Pollution Discharge Elimination System) regulations
- NPDES – Environmental Protection Agency Regulatory Authority
 - Phase I issued in 1990 – Individual Permit
 - Industrial Facilities
 - Construction Sites > 5 acres
 - Medium and Large Municipal Separate Storm Sewer System (MS4)
 - Phase II issued in 1999 – General Permit
 - Small MS4
 - Construction Sites > 1 acre < 5 acres
- MS4 – conveyance that is owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.; designed or used to collect or convey stormwater; and not combined with sewer.

Hawaii Regulatory Background

- NPDES regulatory authority is issued to Hawaii Department of Health by the EPA
- Hawaii Administrative Rules (HAR)
 - Title 11 Chapter 55 (11-55)
 - Water Pollution Control
 - Appendix C
 - Storm Water Associated with Construction Activity
 - Appendix K
 - NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Discharges from Small MS4s
- Harbors Division – Notice of General Permit Coverage (NGPC)
 - HI 03KB482 – Administratively extended in October 2007
 - HI 03KB488 – Administratively extended in October 2007

Purpose of NPDES

- NPDES ensures that no Non-Storm Water Discharge (NSWD) is allowed into the ocean
- Exceptions Include
 - Water Line Flushing
 - Landscape Irrigation
 - Diverted Stream Flows
 - Rising Ground Water
 - Uncontaminated Ground Water Infiltration
 - Uncontaminated Pumped Ground Water
 - Discharges from Potable Water Sources
 - Air Conditioning Condensate
 - Crawl Space Pumps and Footing Drains
 - Dechlorinated Swimming Pool Water
 - Discharges from Fire Fighting Activities

Storm Water Best Management Practices

What Are They?

Administrative and structural controls that are utilized to reduce storm water pollution and keep our surface waters and oceans clean.

- **Administrative Controls**
 - Inspections
 - Housekeeping
 - Material Handling and Storage Practices
 - Maintenance Schedules
- **Structural Controls**
 - Secondary Containment
 - Berms
 - Washracks
 - Silt Fencing
 - Drain Inlet Protection, etc...

Storm Water Management Plan



- Specific, quantifiable goals
- Milestones
- Deadlines
- Responsible Parties
- Costs

Annual Compliance Report



- Show that SWMP has been followed
- Quantify progress
- Explanations for deficiencies, if any
- Documentation

Public Education/Participation



Illicit Discharge Detection & Elimination (IDDE) Program

Common sources of illicit discharges include -

- Sewage inflow from leaking sewage collection and transmission lines
- Commercial carwash and laundry wastewater
- Floor washing to shop drains
- Commercial Vehicle and Equipment wastewater
- Potable line flushing that runs across landscapes
- Pumping of vaults or trenches
- Construction activities
- Liquid wastes containing oil, paint, and process water
- Waste water from manufacturing or equipment processes
- Pesticides, herbicides, and other industrial chemicals



Outfall Inspections

- Harbors will perform Dry and Wet Weather Outfall Inspections to detect illicit discharges into outfalls.
- Dry Weather Flow indicates non-storm water discharges. Tracking these drain systems back to the source is an efficient way to detect Illicit Discharges
- Report NSWDs to Harbors!



Illicit Discharges Threaten our Waters



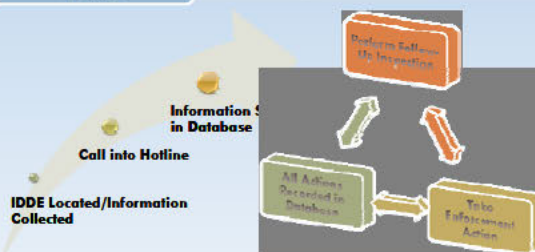
REPORT IT!!



Illicit Discharge Reporting

Interim Compliance Hotline

• (808) 587-1962



Construction Site Runoff Control



Report NSWDs to Harbors!

Common Problems Found

- No temporary or permanent cover
- No sediment controls on-site
- No sediment control for temporary stockpiles
- No inlet protection
- No BMPs to minimize vehicle tracking on to the road
- Improper solid waste or hazardous materials management
- Dewatering of the construction site
- Poorly maintained BMPs

Stockpiling

Improper Stockpiling



Insufficient Containment of Stockpile

Stockpiling



Cover Stockpiled Material
*Covers provide dust suppression and prevent polluted runoff.



Use Silt Fences to Contain Stockpiles



Silt Fencing



Inspection and maintenance of BMP's is as important as installing them.
Improperly maintained silt fences are ineffective.



Silt Fencing



Vegetated Swale!!

Storm Drain Inlet Protection



Storm Drain Inlet Protection



Cleaning Equipment



Equipment Cleaning



Pollution Prevention & Good Housekeeping

VIDEO Presentation

"JUST PASSING THROUGH"


Stormwater Pollution Prevention

EXCAL Visual Communications



Pollution Prevention & Good Housekeeping

- Proper Labeling and Handling of Cleaners, Solvents, and Chemicals
- Organized Chemical Storage
- Responsible Disposal of Chemicals
- Storage Procedures should include covering stored metals
- Proper site drainage should be in place
- Proper Equipment/Material Storage
- Timely Equipment O&M
- Site maintenance and cleaning procedures should be in place. They should address environmental considerations and they should include BMP's



WARNING / INCORRECTLY STOCKING FLAMMABLE ITEMS MAY CAUSE YOUR SUPERVISOR TO EXPLODE

Pollution Prevention & Good Housekeeping



Pollution Prevention & Good Housekeeping



Stocked metals should be covered to prevent heavy metal intrusion into waterways

Pollution Prevention & Good Housekeeping



All drums should be in good, working condition. Inspections should be held regularly and any drums with damage should be replaced immediately.

Pollution Prevention & Good Housekeeping



Access to chemicals should be restricted to personnel trained in proper handling and disposal procedures; all should be labeled and have MSDS available

Flammable chemicals, solvents, and paints should be stored in a fireproof locker. Chemicals should be separated by compatibility

Pollution Prevention & Good Housekeeping



Do not overfill

Trash bin kept covered when not in use

Keep trash and debris from accumulating around the bin, because storm water will carry it out to the ocean

Vehicle and Equipment Washing

- Allowed only at designated facilities
 - Water must be contained
 - Facility should be covered
 - Oil/Water Separator
 - Connected to Sanitary Sewer
- Wash water is NOT allowed outside/uncontained
 - Includes discharge of mop water
 - Includes rinsing or cleaning of waste bins
 - Always seek approval for discharge to sanitary sewer

Vehicle and Equipment Washing



Vehicle and Equipment Washing



No Containment means metals, greases, oils, and other contaminants are being directly discharged into the waterway.

Containment is required

Vehicle and Equipment Washing



Permitted Vehicle Wash Rack



Temporary Only: Wash water and debris require off-site disposal; Minimize detergents and overspray

Spill Prevention and Response

- Prevention First
- Proper Storage
 - Secondary Containment
 - Protected from equipment damage
 - Install shut-off controls, overflow protection, etc...
 - Stored away from storm drains
- Proper filling and handling procedures
 - Use drip pans
 - Use drop cloths
- Report all major spills
- Document all spills with Environmental Section

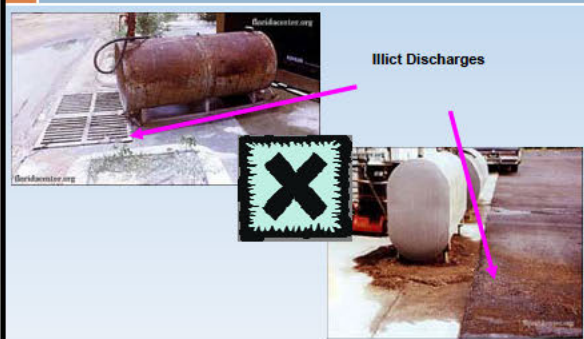
Spill Prevention and Response

SPILL RESPONSE

- Assess
 - What Spilled
 - How Much Spilled
 - Where did it Spill; Surface Water Impacted?
 - Toxic or Hazardous Substance?
- Stop the release (scene is safe and properly trained)
- Contain the Spill
- Clean the Spill
- Properly Dispose of Materials
- Report All Spills
 - Small Spills should be tracked internally
 - Large Spills (>5 or above Reportable Quantity Threshold)
 - Harbors Environmental
 - Hawaii Department of Health
 - U.S. Coast Guard



Secondary Containment



Secondary Containment



Secondary Containment

- Keep locked to prevent unwanted discharge
- If excess storm water collects, inspect for sheen and/or test storm water to determine whether there are contaminants present



- If no contaminants present, supervise and document discharge of clean storm water and relock valve

Spill Prevention and Response



Enforcement Response Program

Regulatory Mechanisms

- Hawaii Administrative Rules (HAR)
- Hawaii Revised Statutes (HRS)
- Tenant Leases/Revocable Permits
- 40 CFR - Clean Water Act & NPDES
- Other Applicable State & Federal Regulations

Penalties for Lack of Compliance (dependant on severity of violation)

- Verbal Warnings
- Written Notices
- Citation with Monetary Fines
- Stop Work Orders
- Abatement by Harbors Division with Reimbursement by the Responsible Party
- Lease Termination
- Referral to HDOH or Other Appropriate Regulatory Agency

What Harbors Employees Can Do

Public Education and Involvement

- Learn and spread environmental awareness
- Use the reporting hotline
- Volunteer for a Harbors-sponsored clean-up activity
- Read through and comment on SWMP when draft is posted

Illicit Discharge Detection and Elimination

- Illicit discharge awareness
- Report Illicit Discharges

What Harbors Employees Can Do

Construction Site Stormwater Runoff Control

Report

- Excessive Sediment runoff
- failed control measures (i.e. broken silt fence)
- Excessive dust

Post-Construction Stormwater Control

- Plant vegetation in areas where with potential soil runoff
- Practice good housekeeping

What Harbors Employees Can Do

Pollution Prevention and Good Housekeeping

- Prevent trash from being exposed to rain by keeping lids closed and scheduling frequent pickups
- Keep oily equipment and parts covered
- Regular maintenance of vehicles
- Keep drip pans on-hand
- Proper use of fertilizer
- No washing of vehicles unless in approved facility
- Clean up stains, spills, oily spots immediately using dry cleanup methods
- Regular sweeping, no wet washing
- Regular trash pickup
- Regular maintenance of drainage systems

Who Can You Call?

Hot Call Harbors Hotline

- Harbors Hotline @ (808) 587-1961

Discharges

- Marine Toilet Control Unit @ (808) 587-2076
- Harbor Police @ (808) 587-2006; (808) 587-2007

Serious Offenses

- Hawaii Department of Health, Clean Water Branch @ (808) 586-4250
- U.S. Coast Guard @ 1 (800) 424-8802
- USEPA @ (808) 541-2721

Grounds Maintenance Records for 2009

Waste Type	Destination Facility	Amount
Lead Acid Batteries	Exide Technologies	1,328 ea.
Green Waste	Hawaiian Earth Product	13.2 tons
Refuse	Covanta Energy Honolulu Resource Recovery	107 tons
Refuse	Waimanalo Gulch	68.3 tons
Sweeping Waste	PVT Land Company, Ltd.	246.2 tons
Recycled Steel	Shritzer Steel Hawaii Corp.	25.7 tons
Discarded Tires	Unitak Solvent Services, Inc.	1,826 ea.
Discarded Tires	Island Recycling Incorporated	26.3 tons



COVER IT! CLEAN IT! COLLECT IT!
KEEP OUR WATERS CLEAN.....

- Questions?
- Comments?

Please fill out the provided survey.



A single tin of paint can contaminate millions of gallons of water!

APPENDIX L

CONSTRUCTION INSPECTION REPORTS

SITE-SPECIFIC BEST MANAGEMENT PRACTICE PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED EVERY 7 DAYS AND/OR WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE)

Project Title: REPAIR BULLETS AT PIER P-7, KBRH NGPC No.: N/A

Project No.: HC 10392

Contractor: Haron Construction, INC.

Prepared By, Title: Andy Chan, P.E.

Date: 3/24/10 ; 10:45am
Sunny ; 81°F.

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
<u>N/A</u>					<u>No ground disturbed today.</u>
					<u>disturbed</u>

Notes/Actions:

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				No ground disturbed disturbed today.
				All disturbed disturbed areas filled w/concrete.

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A				N/A.

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				N/A.

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	YES	Fabrizz used with plywood frame during demo.
Material Storage	N/A	material on pick-up trucks. leave site everyday.
Dewatering	N/A.	

CONTRACTOR ACTIVITIES


Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work today.
Vehicle/Equipment Fueling	N/A	No fueling on site
Vehicle/Equipment Cleaning	N/A	
Vehicle/Equipment Maintenance	N/A	No scheduled maintenance on site
Material Storage	N/A	No material store on site.
Spill Prevention/Control	YES	Contractor will provide drip pan for forklift when equipment is idle.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Repair Bullrails at Pier P-7, Kalaeloa Barbers Point Harbor NGPC No. N/A
 Project No.: HC10392 10:45AM
 Contractor: Haron Construction, Inc. SUNNY
 Verified By:  Date: 04/13/2010
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
NONE					

Notes/Actions:

NO GROUND DISTURBANCE

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
NONE				NO GROUND WORK ACTIVITIES

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No construction activity.
Dust Control	N/A	No construction activity.
Dewatering	N/A	No construction activity.

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No construction activity.
Vehicle/Equipment Fueling	N/A	No equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance on site.
Material Storage	YES	Materials were hauled away from job site.
Spill Prevention/Control	N/A	No construction activity.
Waste Storage/Disposal	YES	No waste storage observed at job site.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

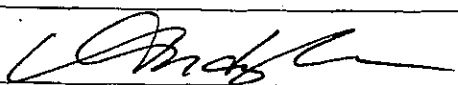
(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Repair Bullrails at Pier P-7, Kalaeloa Barbers Point Harbor NGPC No. N/A

Project No.: HC10392 9:00AM

Contractor: Haron Construction, Inc. SUNNY

Verified By:  Date: 04/28/2010
(HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
NONE					

Notes/Actions:

NO GROUND DISTURBANCE

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
NONE				NO GROUND WORK ACTIVITIES

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	N/A	
Dewatering	N/A	No dewatering activity involved today.

CONTRACTOR ACTIVITIES


Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	YES	Materials will be hauled away from job site each day.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	YES	Waste will be hauled away each day.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Repair Bullrails at Pier P-7, Kalaeloa Barbers Point Harbor NGPC No. N/A
 Project No.: HC10392 9:30AM
 Contractor: Haron Construction, Inc. SUNNY
 Verified By:  Date: 05/26/2010
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
NONE					

Notes/Actions:

Final Inspection on 5/26/10. Project closed.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
NONE				NO GROUND WORK ACTIVITIES

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	

CONTRACTOR ACTIVITIES

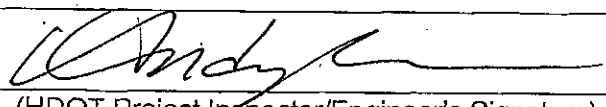
Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	N/A	No materials stored at job site today.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	YES	Waste hauled away each day.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Relamp Floodlights, Kalaeloa Barbers Point Harbor NGPC No. N/A
 Project No.: HC10387 11:00AM
 Contractor: Paul's Electrical Contracting LLC SUNNY
 Verified By:  Date: 04/13/2010
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
NONE					

Notes/Actions:

NO GROUND DISTURBANCE

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
NONE				NO GROUND WORK ACTIVITIES

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No construction activity.
Dust Control	N/A	No construction activity.
Dewatering	N/A	No construction activity.

CONTRACTOR ACTIVITIES

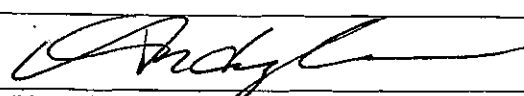
Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No construction activity.
Vehicle/Equipment Fueling	N/A	No equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance on site.
Material Storage	YES	Materials were hauled away from job site.
Spill Prevention/Control	N/A	No construction activity.
Waste Storage/Disposal	YES	No waste storage observed at job site.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Relamp Floodlights, Kalaeloa Barbers Point Harbor NGPC No. N/A
 Project No.: HC10387 9:30AM
 Contractor: Paul's Electrical Contracting LLC SUNNY
 Verified By:  Date: 04/28/2010
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
NONE					

Notes/Actions:

NO GROUND DISTURBANCE

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
NONE				NO GROUND WORK ACTIVITIES

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
NONE				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No construction activity.
Dust Control	N/A	No construction activity.
Dewatering	N/A	No construction activity.

CONTRACTOR ACTIVITIES

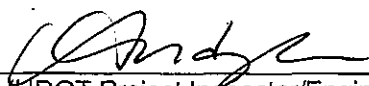
Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No construction activity.
Vehicle/Equipment Fueling	N/A	No equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance on site.
Material Storage	YES	Materials were hauled away from job site.
Spill Prevention/Control	N/A	No construction activity.
Waste Storage/Disposal	YES	No waste storage observed at job site.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN
EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Relamp Floodlights at Kalaeloa Barbers Point Harbor NGPC No. N/A
 Project No.: HC 10387 1:30PM
 Contractor: Paul's Electrical Contracting, LLC SUNNY
 Verified By:  ANDY CHAN Date: 12/8/2010
 (HDOT Project Inspector/Engineer's Signature)

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A					No Ground Disturbance.

Notes/Actions:

Final Inspection on 12/8/10.

No work was performed in the last several months.

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				NO GROUND WORK ACTIVITIES

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A.				No Ground Disturbance work

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	N/A	No dust created today.
Dewatering	N/A	No dewatering activity involved today.

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	YES	Material was stored inside contractor's van.
Spill Prevention/Control	N/A	No equipment on site.
Waste Storage/Disposal	Yes	Wastes were hauled away from job site each day.

SITE-SPECIFIC BEST MANAGEMENT PRACTICE PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED EVERY 7 DAYS AND/OR WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE)

Project Title: REPAIR LIGHTING AT PREL 1, KBPIH NGPC No.: N/A

Project No.: H.C. 103B5

Contractor: Paul's Electrical Contracting, LLC

Prepared By, Title: Andy Chan, P.E.

Date: 3/24/10; 11:15 a.m.

Sunny; 81°F

EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
<u>N/A</u>					<u>N/A. No ground work involved.</u>

Notes/Actions:

To be performed by: _____ on or before: _____

SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				No ground works

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A				N/A

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

STRUCTURAL CONTROLS (SEDIMENT BASINS)

(Check for Condition of Basin and Condition of outfall)

Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				N/A

(* Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

To be performed by: _____ on or before: _____

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Material Storage	N/A	No activity today.
Dewatering	N/A	No ground work involved.



CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No conc. work involved.
Vehicle/Equipment Fueling	N/A	No equipment on site
Vehicle/Equipment Cleaning	N/A	No equipment on site
Vehicle/Equipment Maintenance	N/A	No equipment on site
Material Storage	N/A	No material stored on site
Spill Prevention/Control	N/A	No equipment on site

APPENDIX M

HARBORS CONSTRUCTION PLAN REVIEWER/INSPECTOR TRAINING

RECORDS

EMPLOYEE STORM WATER MANAGEMENT TRAINING CONSTRUCTION INSPECTION

Hawaii Department of Transportation – Harbors
Division

Introduction

- Hawaii Department of Transportation – Harbors Division
 - Mr. Randal Leong – Environmental Engineer
 - Mr. Richard Min – Environmental Health Specialist
- Weston Solutions, Inc.
 - Mr. David Johnson
 - Mr. Joe Weidenbach
 - Mr. Mark Ambler

Agenda

- Handouts
- Regulatory Background
- Purpose of NPDES
- Small MS4 General Permit Requirements
- Where do Construction Projects Originate?
- Construction Site Stormwater Runoff Control Plan
 - Plan Review
 - Site Inspections and Video: BMPs for Construction Sites in Hawaii
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Contact Information
- Question/Comments

Handouts

- 10 Elements of a Successful Review
- DOH-CW-NOI General Form
- DOH-CWB-NOI Form C
- EMS Manual Appendix G – Inspection and Enforcement Manual
- EMS Manual Appendix H – Construction Program


Regulatory Background - Federal

- Clean Water Act (40 CFR 100-149)
 - 1972 Clean Water Act– Swimmable, Fishable
 - 1987 Amendments – NPDES (National Pollution Discharge Elimination System) regulations
- Effluent Limitation Guidelines and Standards for the Construction and Development Point Source Category (40 CFR 450)
- NPDES – environmental Protection Agency Regulatory Authority
 - Phase I issued in 1990 – Individual Permit
 - Industrial Facilities
 - Construction Sites > 5 acres
 - Medium and Large Municipal Separate Storm Sewer System (MS4)
 - Phase II issued in 1999 – General Permit
 - Small MS4
 - Construction Sites > 1 acre < 5 acres
- MS4 – conveyance that is owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.; designed or used to collect or convey stormwater; and not combined with sewer.



Regulatory Background - Hawaii

- NPDES regulatory authority is issued to Hawaii Department of Health by the EPA
- Hawaii Administrative Rules (HAR)
 - Title 11 Chapter 55 (11-55)
 - Water Pollution Control
 - Appendix C
 - Storm Water Associated with Construction Activity
 - Appendix K
 - NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Discharges from Small MS4s
- Harbors Division – Notice of General Permit Coverage (NGPC)
 - HI 03KB482 – Administratively extended in October 2007
 - HI 03KB488 – Administratively extended in October 2007



Purpose of NPDES

- NPDES ensures that no Non-Storm Water Discharge (NSWD) is allowed into the ocean
- Exceptions include:
 - Water Line Flushing
 - Landscape Irrigation
 - Diverted Stream Flows
 - Rising Ground Water
 - Uncontaminated Ground Water Infiltration
 - Uncontaminated Pumped Ground Water
 - Discharges from Potable Water Sources
 - Air Conditioning Condensate
 - Crawl Space Pumps and Footing Drains
 - Dechlorinated Swimming Pool Water
 - Discharges from Fire Fighting Activities

Small MS4 General Permit Requirements

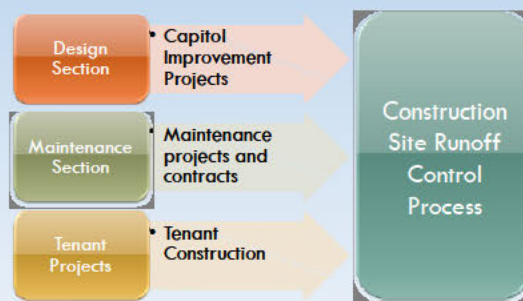
Minimum Control Measures

- Public Education & Outreach
- Public Participation & Involvement
- Illicit Discharge Detection & Elimination
- **Construction Site Runoff Control**
- **Post-Construction Runoff Control**
- Pollution Prevention & Good Housekeeping

Construction Site Runoff Control Plan

- The purpose of the CSRCP is to prevent construction projects from polluting storm water during and after construction
- The CSRCP includes:
 - Plan Review
 - Site Inspections
 - Enforcement
 - Reporting
 - Educational Outreach
- Defined in Section 5.0 of the Storm Water Management Plan

Where Do Construction Projects Originate?



Construction Plan Review

- Construction Site Runoff Control Plan:

 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach

- A tracking form will be developed to specify the responsibility of review
 - Review will focus on storm water quality impacts, drainage connection and discharge permit applications
 - Construction plan review includes post-construction consideration

USEPA: 10 Elements of an Effective Review

- Construction Site Runoff Control Plan:

 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach

1. Minimize Clearing and Grading
 2. Protect Waterways
 3. Phase Construction to Limit Soil Exposure
 4. Immediately Stabilize Exposed Soils
 5. Protect Steep Slopes and Cuts
 6. Install Perimeter Controls to Filter Sediments
 7. Employ Advanced Sediment Settling Controls
 8. Certify and Train Contractors on Stormwater Site Plan Implementation
 9. Control Waste at the Construction Site
 10. Inspect and Maintain BMPs

<http://cfpub.epa.gov/npdes/stormwater/constructing/index.cfm?section=browse&button=detail&step=11&id=measure=4>

Construction Discharge Permit

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Construction site operators must submit a CWB-NOI Form when a construction activity results in the disturbance of greater or equal to 1 acre
 - The form must be submitted at least 30 calendar days prior to construction
 - Both the General Form and the Form C must be filled out
 - See handouts for further submission requirements

<http://www2.hawaii.gov/health/development/Construction/Forms/Construction.html>

CWB-NOI General Forms

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Owner information
 - Owner Type
 - Operator Information
 - Facility/Project Information
 - List of Receiving Waters
 - Authorized Representatives

<http://www2.hawaii.gov/health/development/Construction/Forms/Construction.html>

CWB-NOI Form C

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Construction Site Information
 - Storm Water Quantities
 - Non-Storm Water Quantities
 - Location Map
 - Flow chart showing storm water routes, treatments, BMPs, drainage, etc.
 - Permits, licenses, and approvals
 - Site characteristics
 - Prior land use
 - Existing pollution sources
 - Pollution source corrective measures
 - Construction BMP Plan

<http://www2.hawaii.gov/health/development/Construction/Forms/Construction.html>

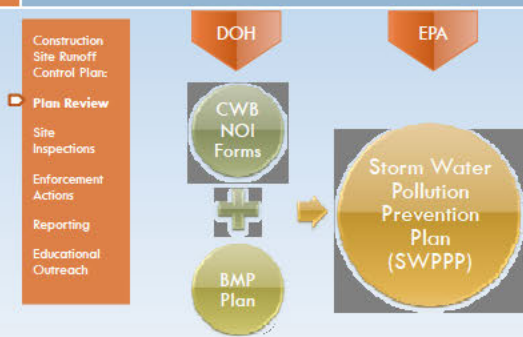
Construction BMP Plan (BMP Plan)

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Project site maps
 - Phasing maps
 - Construction plans
 - Construction activity
 - Quality of discharge
 - Potential pollutants
 - Controls for land disturbances
 - Erosion and Sediment Control Requirements
 - Site-Specific BMPs Plan*
 - Post-Construction Pollution Control Measures

*The BMP Plan can be site specific or kept general with a site-specific plan to be submitted separately at least 30 days prior to start of construction.

<http://www2.hawaii.gov/health/development/Construction/Forms/Construction.html>

BMP vs. SWPPP



EMS Manual as a Tool for Plan Review

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Harbors' Environmental Management System Manual Appendix H Contains tools for managing internal and tenant construction activities
 - Plan Review checklist
 - Plan Amendment and Review Form



Site-Specific Compliance, BMP, Pollution Prevention Plan Review Checklist

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- For review of Construction Plan, NOI Forms, Site-Specific BMP Plan
 - Harbors to develop procedures for use of checklist
 - No grading or site work will commence until Harbors has verified that regulations are met
 - Retain checklist and plans in tenant file

Site-Specific Compliance, BMP, Pollution Prevention Plan Amendment Review Form

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- For amendment of Construction Plan, NOI Forms, Site-Specific BMP Plans
 - Responsibility depends on phase of process
 - Planning
 - Construction
 - Post-Construction Controls
 - No grading or site work will commence until Harbors has verified that regulations are met
 - File with Review Checklist

EMS Manual as a Tool for Construction Site Inspection



- Appendix G: Inspection and Enforcement Manual
 - Section 5.0 Inspection Procedures
- Appendix H: Construction Program
 - Inspection and Maintenance Report Form

Construction Site Inspections

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Construction Site Inspections are dictated by Harbors EMS Manual Appendices G & H
 - Inspections will occur after approval of plans to ensure that BMPs have been installed and maintained
 - Contractor will not be allowed to begin grading or site work until Harbors has documented inspection.
 - Inspections will continue throughout the life of the project.
 - Rainy season (Oct-Apr): every two weeks
 - Dry Season (May-Sept): every two months

Inspector Roles and Responsibilities

- Construction Site Runoff Control Plan:
 - Plan Review
 - Site Inspections
 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Professional Responsibility – Show common courtesy toward facility personnel by
 - Scheduling inspections ahead of time
 - Giving a courtesy call at least 20 minutes before inspection
 - Asking permission to take photos
 - Providing introductions and credentials
 - Providing facility with copy of findings
 - Thanking facility personnel

Inspector Roles and Responsibilities

- Construction Site Runoff Control Plan:
 - Plan Review
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 - Enforcement Actions
 - Reporting
 - Educational Outreach
- Safety Responsibility – Protect yourself from accidents
 - Wearing appropriate gear (hard hat, steel-toed shoes)
 - Assessing hazards in surroundings and acting appropriately
 - Ensure you have proper safety for hazards known at the site (i.e. HAZWOPER requirements for environmentally impaired sites)
 - Documentation Responsibility
 - Take photos
 - Take complete notes with locations, dates, and times
 - Obtain contact information for representative for follow up or future inspections

Construction Pre-Inspection

Construction Site Runoff Control Plan:
Plan Review
Site Inspections
Enforcement Actions
Reporting
Educational Outreach

- Collect and analyze background information on tenant/construction site
 - Records of environmental assets
 - Past inspection records
 - Property management files
 - Maps
 - Plans
 - NOI Review
- Develop strategy for inspection. What are the specific concerns/goals?
- Prepare safety equipment
- Unannounced inspections are allowed, but only recommended for higher levels of enforcement
- Announced inspections allow time for gathering of records and making appropriate representative available

Construction Pre-Inspection

Construction Site Runoff Control Plan:
Plan Review
Site Inspections
Enforcement Actions
Reporting
Educational Outreach

- If tenant or contractor is hostile, Harbor police can escort
- A conference may allow tenant/operators to locate additional documents or key personnel
- A site representative must accompany the inspector to answer questions and describe operations

Site Inspections

Construction Site Runoff Control Plan:
Plan Review
Site Inspections
Enforcement Actions
Reporting
Educational Outreach

- Inspection procedures will follow Section 5.0 of IEP. Substitute reporting requirements with:
- Site Specific Compliance, BMP, Pollution Prevention Plan Inspection and Maintenance Report Form
- Sections covered:
 - Erosion control
 - Sediment controls
 - Stabilized construction entrance
 - Structural controls
 - Other construction activities
 - Contractor activities

Video: BMPs for Construction Sites in Hawaii

Video Review

- 1st Priority – Minimize erosion
- 2nd Priority – Prevent pollution runoff from leaving site
- Update BMPs when there is a change in
 - Construction process
 - Environment
- Erosion Control Measure – Source prevention
- Sediment Control Measure – Stops pollution after it has eroded
- Tracking Controls – Prevents/minimizes sediment from leaving site on vehicles

Stockpiling

Improper Stockpiling



Stockpiling



Use Silt Fences to Contain Stockpiles

Cover Stockpiled Material
*Covers provide dust suppression and prevent polluted runoff.



Silt Fencing



Inspection and maintenance of BMP's is as important as installing them. Improperly maintained silt fences are ineffective.



EROSION CONTROL - SLOPES/EXPOSED AREAS

Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
North perimeter	2/18/10	yes	Silt Fence	No	Fence is damaged and maintenance records not provided.

Notes/Actions:

Damaged area of silt fence is allowing sediment to leave property. Contractor must repair silt fence.

To be performed by: ABC Construction on or before: 3/4/10

Silt Fencing



Vegetated Swale!!



Storm Drain Inlet Protection



SEDIMENT CONTROL

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	Rate Effectiveness of Control	Comments
Nimble Gate	Drain Inlet Protection	No	Poor	Not maintained, broken control.

(Effectiveness Rating: Excellent, Very Good, Good, Fair, Poor)

Notes/Actions:

Drain inlet protection is insufficient. Immediate replacement/repair required.

To be performed by: ABC Construction on or before: 3/4/10

Storm Drain Inlet Protection



The top image shows a green grate installed over a storm drain inlet. The bottom left image shows a large pile of sand blocking a drain. The bottom right image shows a green grate with a checkmark icon.

Cleaning Equipment



The top left image shows a red excavator cleaning a drain. The top right image shows a yellow forklift with a cleaning attachment. The bottom right image shows a yellow backhoe with a cleaning attachment.

Equipment Cleaning




The top left image shows a green excavator. The top right image shows a white truck. The bottom left image shows a green car. The bottom right image shows a pile of gravel.

Vehicle and Equipment Washing



The top left image shows a person washing a car. The top right image shows a yellow backhoe. The bottom right image shows a pile of gravel.

Vehicle and Equipment Washing



No Containment means metals, greases, oils, and other contaminants are being directly discharged into the waterway.

Containment is required


Vehicle and Equipment Washing



Permitted Vehicle Wash Rack

Temporary Only: Wash water and debris require off-site disposal; Minimize detergents and overspray

Pollution Prevention & Good Housekeeping



Drums should be stored properly to prevent leaks and spills.

Pollution Prevention & Good Housekeeping



Stocked metals should be covered to prevent heavy metal intrusion into waterways.

Pollution Prevention & Good Housekeeping



All drums should be in good, working condition. Inspections should be held regularly and any drums with damage should be replaced immediately.

Trash Bins

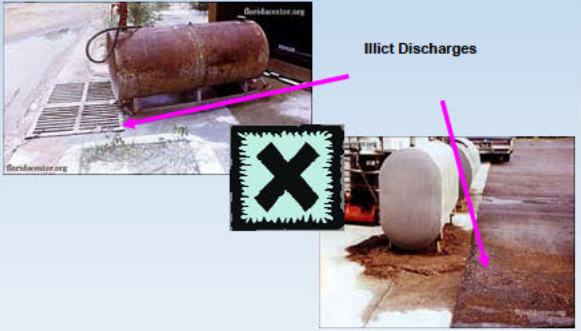


Do not overfill.

Trash bin kept covered when not in use.

Keep trash and debris from accumulating around the bin, because storm water will carry it out to the ocean.

Secondary Containment



Illicit Discharges

Secondary Containment



Secondary Containment

- Keep locked to prevent unwanted discharge
- If excess storm water collects, inspect for sheen and/or test storm water to determine whether there are contaminants present



- If no contaminants present, supervise and document discharge of clean storm water and relock valve

Spill Prevention and Response

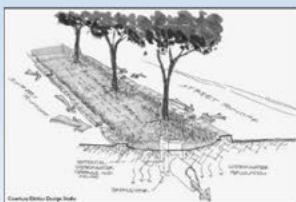


Procedures should focus on prevention first. Then clean up if spills still occur



Post-Construction Controls

Post-Construction Storm Water Management starts early on in the design process! Tools like Low-Impact Development and Green Design can be used to create a cost effective system for managing runoff from your sites.



Create a Hydrologically Functional Site!!!



Post-Construction Controls

Considering water quality impacts early in the design process can provide long-term water quality benefits.

Low-Impact Development

- Green Design
- Site Specific/Innovative BMPs
- Infiltration
- Filtration
- Retention/Detention
- Isolation/Separation of Runoff from Processes

Options you can use to manage your site:

- Green Parking
- Green Roofs
- Protection of Natural Features
- Urban Forestry
- Grassed Swales
- Infiltration Basin/Trench
- Permeable Pavement
- Porous Asphalt Pavement
- Sand and Organic Filters
- Vegetated Filter Strip
- Dry Detention Ponds
- In-Line Storage
- Storm Water Wetland

Post-Construction Controls



Drainage Swales



Storm Water Retention Ponds



Porous Pavement & Storm Water



Green Roofs

EMS Manual as a Tool for Enforcement



- Appendix G: Inspection and Enforcement Manual
 - Section 6.0 Enforcement Procedures
- Appendix H: Construction Program
 - Inspection and Maintenance Report Form
 - Plan Amendment Review Form

Enforcement Actions

Construction Site Runoff Control Plan:
Plan Review
Site Inspections
Enforcement Actions
Reporting
Educational Outreach

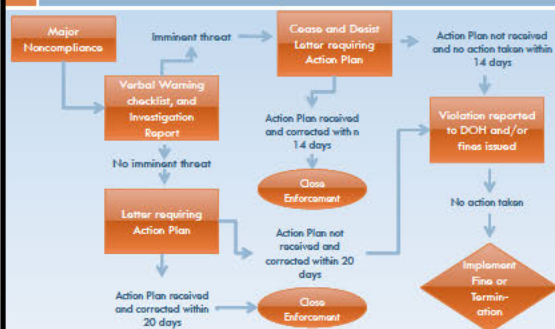
- EMS Manual Appendix G Inspection and Enforcement Plan Section 6.0 directs tenant enforcement
- Contract language directs construction operator enforcement

Minor Enforcement Actions for Tenants



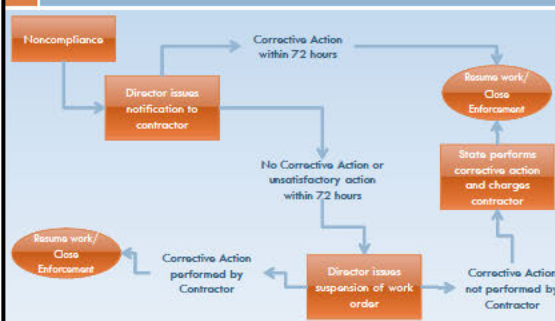
EMS Manual Inspection and Enforcement Plan Figure 1

Major Enforcement Actions for Tenants



EMS Manual Inspection and Enforcement Plan Figure 1

Example Construction Enforcement Actions from Pier 29



Specifications and Proposal for Construction of Pier 29 Container Yard

Enforcement Actions

Construction Site Runoff Control Plan:
Plan Review
Site Inspections
Enforcement Actions
Reporting
Educational Outreach

- Recommended enforcement actions can be noted on the Inspection and Maintenance Report Form

Notes/Actions:

To be performed by _____ on or before _____

Site Specific ESD Inspection and Enforcement Report Page 1 of 1

- Letter of Action will be submitted by Harbor Administrator or Director

Enforcement Actions

Regulatory Mechanisms

- Hawaii Administrative Rules (HAR)
- Hawaii Revised Statutes (HRS)
- Tenant Leases/Revocable Permits / Construction contracts
- 40 CFR - Clean Water Act & NPDES
- Other Applicable State & Federal Regulations

Penalties for Lack of Compliance (dependant on severity of violation)

- Verbal Warnings
- Written Notices
- Citation with Monetary Fines
- Stop Work Orders
- Abatement by Harbors Division with Reimbursement by the Responsible Party
- Lease Termination
- Referral to HDOH or Other Appropriate Regulatory Agency

Enforcement Actions

Construction
Site Runoff
Control Plan:
Plan Review
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Actions
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- Corrective actions regarding inadequate BMPs must be rectified and reflected in an amended BMP Plan
- Changes to BMP Plan must be logged in the Plan Amendment Review Form
- Form must be included in tenant file

Reporting

Construction
Site Runoff
Control Plan:
Plan Review
Site
Inspections
Enforcement
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Reporting
Educational
Outreach

- Construction Program Site Specific Compliance, BMP, Pollution Prevention Plan
 - Review Checklist,
 - Inspection and Maintenance Report Form, and
 - Plan Amendment Review Form
- Must be filed in for tracking and record-keeping purposes
- Specific tracking procedures to be developed

Educational Outreach

Construction
Site Runoff
Control Plan:
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Reporting
Educational
Outreach

- Training workshops for plan reviewers
- Harbors will develop educational materials for contractors
- Educational Materials will be available on Harbors website

Outreach to Contractors

Construction
Site Runoff
Control Plan:
Plan Review
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Enforcement
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Reporting
Educational
Outreach

- Resources for specific BMP procedures
 - Best Management Practices Manual for Construction Sites in Honolulu (DES, GCA)
 - Rules Relating to Soil Erosion Standards and Guidelines (DPP)
 - USEPA Website: Menu of BMPs
<http://cfpub.epa.gov/npdes/stormwater/menubofbmps/index.cfm>
 - 40 CFR 450 -- Effluent Limitation Guidelines and Standards for the Construction and Development Point Source Category

Who Can You Call?

First Call Harbors Hotline

- Harbors Hotline @ (808) 587-1969

Discharges

- Marine Toilet Central Unit @ (808) 578-2076
- Harbor Police @ (808) 587-2006; (808) 587-2007

Serious Offenses

- Hawaii Department of Health, Clean Water Branch @ (808) 586-4250
- U.S. Coast Guard @ 1 (800) 424-8802
- USEPA @ (808) 541-2721



COVER IT! CLEAN IT! COLLECT IT!
KEEP OUR WATERS CLEAN.....

- Questions?
- Comments?

Please fill out the provided survey.



References

- ❑ <http://megib.bz/wp-content/uploads/2009/04/oil-runoff-into-storm-drain.jpg>
- ❑ http://www.octopuscarwash.com/IMG_0014.jpg
- ❑ <http://www.calforniaaerosolutions.com/images/Parker-powerwash328.jpg>
- ❑ <http://s3.images.com/huge70.351214.JPG>
- ❑ <http://www.pneac.org/stormwater/pg-stockpiles.cfm>
- ❑ http://www.victorstory.com/signa/property_management/images/dumping-1.jpg
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- ❑ http://www.northsydney.nsw.gov.au/resources/images/street_cleaner.jpg
- ❑ <http://www.suntroselect.com/files/images/Products/Curb-Inlet-Protector/curb%20inlet%20protector%204.jpg>

References

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References

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References

- [illegible]



Ten Elements of an Effective Stormwater Site Plan



Plan review staff should check site plans to ensure they address common, critical elements. The following ten elements of an effective stormwater site plan (adapted from Brown and Caraco, 1997) present a comprehensive approach to addressing construction site runoff. These elements include:

1. Minimize Clearing and Grading

Construction site operators should take all measures possible to avoid clearing/grading stream buffers; forest conservation areas; wetlands, springs and seeps; highly erodible soils; steep slopes; environmental features; and stormwater infiltration areas. In addition, site fingerprinting should be employed and limits of disturbance (LOD) should be mapped, clearly delineated on site with flags and conveyed to personnel.

2. Protect Waterways

Construction site operators should identify waterbodies on site and adjacent to the site. If construction activities occur near a waterbody, clearing/grading activities should be minimal and silt fencing and/or earthen dikes should be installed.

3. Phase Construction to Limit Soil Exposure

Prior to construction initiation, activities should be broken into phases. Grading activities should be limited to the phase immediately under construction to decrease the time that soil is exposed, which, in turn, decreases the potential for erosion. Additional phases should begin only when the last phase is near completion and preferably exposed soil has been stabilized. Construction scheduling should facilitate installation of erosion and sediment control measures prior to construction start, detail time limits for soil stabilization after grading occurs, and schedule BMP maintenance.

4. Immediately Stabilize Exposed Soils

Exposed soils should be stabilized within two weeks of the onset of exposure. The long-term goal is to establish permanent vegetation after each phase of construction; however, mulch, hydroseeding, or other means of soil coverage may protect exposed soil while facilitating vegetation growth. The stormwater site plan should detail appropriate plant species to be seeded, as well as weather and climactic conditions necessary for germination and successful vegetation establishment.

5. Protect Steep Slopes and Cuts

Cutting and grading of steep slopes (>15 percent) should be avoided wherever possible. If a steep slope exists, all water flowing onto the slope should be redirected with diversions or aslope drain. Silt fence at top and toe of the slope must be anchored well, although this measure may not provide adequate protection by itself. On steep slopes, jute netting and erosion control blankets (geotextiles) should be used in conjunction with seeding or mulching, as seeding alone may not be effective.

6. Install Perimeter Controls to Filter Sediments

Silt fence should be properly installed around the perimeter of the construction site. A fiber roll on the inside (site-facing) of the silt fence works to provide additional filtration. In areas of heavy flows or breach concern, a properly sized earthen dike with a stabilized outlet should be created. In addition, catch basin inlets receiving stormwater flows from the construction site must be protected with adequate inlet controls.

7. Employ Advanced Sediment Settling Controls

Sediment Basins should be created where space is available; however, discharge from basins must be non-turbid. The use of skimmers and multiple cell construction of basins assist in sediment drop-out.

8. Certify and Train Contractors on Stormwater Site Plan Implementation

Contractors and/or construction staff should be trained in erosion and sediment control practices and procedures to effectively install and manage erosion and sediment control features. Meetings and site inspections by municipal staff provide opportunities for discussion of effective BMPs with site staff. Inspectors should make a strong commitment to contractor education to develop a constructive and responsive relationship.

9. Control Waste at the Construction Site

The site plan should describe the type of construction site waste found at the site (such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste) and how that waste will be controlled to minimize adverse impacts to water quality. For example, concrete washout and trash storage areas should be clearly labeled on the plan and should be located away from water bodies and catch basin inlets.

10. Inspect and Maintain BMPs

Each stormwater site plan should clearly describe the construction site operator's BMP inspection and maintenance, including who will inspect the site and how often. Ideally, an example inspection form should be included with the plan. Inspections should occur at a regular interval and should also occur immediately before and after rain events. The plan should also describe how BMPs will be maintained.

References

“Construction Phase Plan Review.” United States Environmental Protection Agency. 9 Jan 2008. 18 Feb 2010. <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=factsheet_results&view=specific&bmp=116>

Brown and Caraco, 1997, *Muddy Water In, Muddy Water Out?* From: Watershed Protection Techniques. 2(3): 393-403.